



# KNOWLEDGE ORGANISERS YEAR 5



**AS WRITERS ...** We will use the narrative The Rain Pigeon which is based on the Mayan. The sequence of

learning begins with a ball arriving in the classroom with a warning asking children if they dare to play the most dangerous game of all time! Children go on to use the information they have learned to write instructions for pok-a-took, a mischievous game, newspaper reports, conduct debates and write analytical essays. We will then study an abridged version of The Tempest by William Shakespeare. During this sequence of learning, children have the chance to explore the themes, ideas and characters in the play as well as writing opportunities, such as character descriptions and comparisons, scene/setting descriptions and diary entries. They also explore the conventions of writing playscripts, including (characterisation through) dialogue, stage directions and how to convey action, as well as some Shakespearean conventions, such as the unheroic protagonist. The Writing Root culminates in children having the opportunity to write their own 'tempest' story to be read or performed.

## AS HISTORIANS...

We will be looking at the big questions

Were the Vikings raiders, traders or something else?

They will investigate chronology and learn about where the Vikings came from. They will understand the terms primary and secondary sources to evaluate the impact of Viking invasion.

## AS SCIENTISTS...

Building on previous Living Things units this Year 6 National Curriculum course helps children identify the kingdoms of life and to classify living things within those kingdoms. The children will be introduced to the

Linear system of classification and will be able to develop their practical scientific skills through investigating mould growth on bread and mushroom spore dispersal.

## AS COMPUTER SCIENTISTS...

We will study search engines and understand how search engines work and develop search skills to find relevant and accurate information online.

## BADGERS

AUTUMN 2 - 2025



## IN PHSE...

We will be focussing on Health & Wellbeing while learning about the importance of relaxation and sleep, understanding how to cope with failure, learning how to set goals and how to achieve goals, taking precautions while in the sun, healthy meals and ingredients, learning about different emotions and possible ways of dealing with a difficult situation.

## AS MATHEMATICIANS...

We will be using all of our knowledge in mastering activities, both mental and written. We will look at multiplication, division and fractions using different manipulatives and representations to help us. A continuous thread for both year groups will be applying their knowledge, especially times tables, to reasoning problems. We will spend time focussing on being Fluent Mathematicians.

## AS LINGUISTS.....

By the end of this unit pupils will have the knowledge and skills to make a presentation about their own/a fictitious family in both spoken and written form in French. Pupils will start to integrate previously learnt language with newly acquired language, encouraging more confident use of their growing bank of vocabulary. Pupils will demonstrate an increasing knowledge of grammar and the use of the possessive in French to manipulate language, thus starting to create more personalised responses as the unit supports the change from 1st person singular to 3rd person singular.

## AS PEOPLE OF FAITH IN RE..

We will be thinking about the question- Why do Hindus want to be good?

## AS ARTISTS...

We will be exploring mark making for showing depth, emotion and movement. They will confidently using sketchbooks for purposes including recording observations and research, testing materials and working towards an outcome more independently.

## AS MUSICIANS...

Children will be listening to a variety of music that includes a range of time signatures. They will hear, explore and create their own ostinatos using a variety of timbres of body percussion and voice. In small groups, children will create a piece in 5/4 time signature built around several composed ostinato patterns.

## AS SPORT STARS ..

The children will be learning about playing in a team by working on skills in football, rugby, badminton and hockey.

# English

## Play Scripts Knowledge Organiser



| Does your play script include...                                               |  |
|--------------------------------------------------------------------------------|--|
| a cast list?                                                                   |  |
| a short description of the setting?                                            |  |
| the speakers names on the left with colons?                                    |  |
| written detailed dialogue without speech marks?                                |  |
| a structure that uses scenes?                                                  |  |
| brackets for stage directions?                                                 |  |
| a variety of punctuation used for effect?                                      |  |
| extended stage directions using adverbs, adjectives and prepositional phrases? |  |

### Examples of Extended Stage Directions

(slouches down roughly into his high-backed chair)

(walks cautiously towards the mysterious knocking sound)

(crouches down on the ground, lifts the puppy's ear and whispers softly)

(looks suspiciously into the full-length mirror in front of him)

### Prepositional Phrases

...a bright crystal chandelier hung **over the table**...

...she sneaks the book gently **into her coat pocket**...

...the lights **above the stage** dim and flicker...

### Word Bank

|            |           |          |           |
|------------|-----------|----------|-----------|
| across     | answer    | arrive   | appear    |
| bewildered | breath    | breathe  | cheerful  |
| consider   | continue  | defiant  | disappear |
| down       | glamorous | heard    | mention   |
| minute     | notice    | position | promise   |
| question   | relieved  | spotless | stomp     |
| strange    | surprise  | tiptoed  | through   |

### Expanded Noun Phrases

...those ballet shoes...

...his worn school jumper...

...the tiny, marble statue...

...a loud, booming noise...



### Adverbs

accidentally

**angrily**

anxiously

**cautiously**

completely

**enthusiastically**

frantically

**gracefully**

hungrily

**joyously**

loudly

**madly**

merrily

**nervously**

occasionally

**quickly**

repeatedly

**sadly**

shyly

**solemnly**

### Key Features

cast list

short description  
of setting

speakers names are on  
the left  
with colons

detailed dialogue without  
speech marks

structured using scenes

brackets for stage  
directions

a variety of punctuation  
used for effect

extended stage directions  
using adverbs, adjectives  
and prepositional phrases

### Working in Mr Luton's Garden

#### Cast

Thomas Luton: A grumpy, old man who likes to live alone.

Jacob Masters: A nine year old boy who has just moved to a new house.

#### Act I Scene 4

Thomas's lounge. He is all alone, sitting in a high-backed armchair and facing a marble fireplace. Opposite him is a large, broken window. Suddenly, a soft knocking sound begins offstage - as if someone is knocking on the front door.

Thomas: (slouches down into his chair and grunts angrily) Here he is, the little scamp. (shouts) Come in!

(Slowly, Jacob enters and shuffles reluctantly across the room. He is dressed in denim shorts, worn black trainers and a bright red t-shirt. His hands are in his pockets and his chin is touching his chest.)

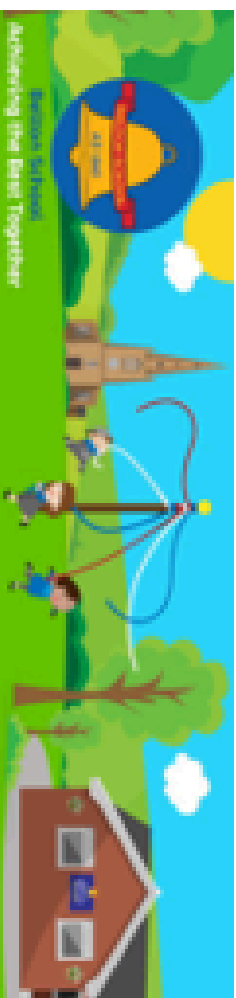
Thomas: (stands and stamps his foot indignantly) What do you want?

Jacob: (raises his head slowly to look up at Thomas) I'm here to work off the cost of your front window, Mr Luton.

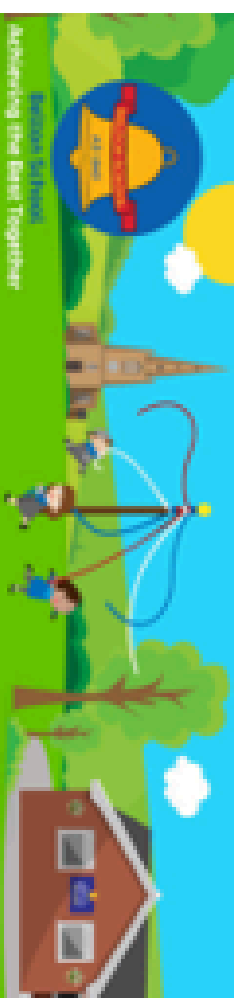
Thomas: (grabs his wooden cane from beside his chair and begins to walk across the stage) Well don't dally about. Let me show you where the garden tools are. I could really use your help to clear out my back garden because my strength isn't what it used to be.

Jacob: (takes his hands out of his pockets and begins to follow Thomas) I promise I won't let you down. I'm really sorry, Mr Luton.

Thomas: (turns around, smiles down at Jacob. He ruffles his hair with his free hand) I know you are boy. It was a great hit with your cricket bat but you've got to learn to aim Jacob.



# Year 5 Instructions



| What should I already know?                                                                                                                                                                                                                                                                                                                  | Diagrams/WAGOLL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Vocabulary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
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| <ul style="list-style-type: none"><li>• Use heading and sub-headings</li><li>• Include an introduction sentence</li><li>• Include a list of what is needed</li><li>• Put steps in chronological order</li><li>• Use bossy verbs (imperative verbs)</li><li>• Use numbers to separate steps</li><li>• Include a conclusion sentence</li></ul> | <p><b>How to Fix a Puncture on a Monster Truck</b></p> <p>Have you ever had a puncture on a bicycle or seen a flat tyre on a car? Imagine if the puncture was on the huge tyre of a monster truck. How would you fix the puncture and get the truck back on track performing stunts and crushing cars? Follow these instructions and you will find out how to fix it!</p> <p><b>You will need:</b></p> <ul style="list-style-type: none"><li>• a very large container of warm water (a paddling pool would be ideal)</li><li>• a strong rubber patch</li><li>• a piece of sandpaper</li><li>• some chalk</li><li>• a coloured wax crayon</li><li>• rubber solution (similar to glue)</li></ul>  <p><b>Method</b></p> <ol style="list-style-type: none"><li>1. Firstly, remove the tyre from the truck with the help of several strong people, who are able to help to lift the truck off the ground.</li><li>2. Perform a thorough check to see if any sharp objects remains stuck in the tyre and carefully remove them if necessary. This is particularly important if the truck has been driving over other vehicles.</li><li>3. If the source of the puncture is not clear, you will need to locate it by reinflating the tyre with air. An electrical pump could speed up this process considerably.</li><li>4. After inflating, try looking or listening for any air leaking out. This may involve the use of a small stepladder to reach the top of the tyre.</li><li>5. Alternatively, submerge the tyre under water in a very large container such as a paddling pool. Any leaking air can be identified by bubbles rising to the surface of the water.</li></ol> | <table><tr><td>Title</td><td>The name of the piece of work.</td></tr><tr><td>Heading</td><td>Another name for title.</td></tr><tr><td>Sub-heading</td><td>Smaller titles in the piece of writing which gives the reader information about that piece of text.</td></tr><tr><td>introduction</td><td>Gives the reader a small piece of information about the text.</td></tr><tr><td>Method</td><td>How to do something</td></tr><tr><td>Organisational language</td><td>Time conjunctions and other grammar devices which organise the writing to give clear structure</td></tr><tr><td>Instructions</td><td>Explains how to make/create/do something</td></tr><tr><td>Diagram</td><td>Pictures/drawings with labels and captions</td></tr><tr><td>Paragraph</td><td>A distinct section of writing, dealing with one theme/subject</td></tr><tr><td>Technical language</td><td>Language specific to something e.g. astronauts would relate to space.</td></tr><tr><td>Tips</td><td>Extra information to help the reader</td></tr><tr><td>Conclusion</td><td>Final comment</td></tr><tr><td>Imperative verbs</td><td>Verbs which tell the reader to do something</td></tr></table> <p><b>Instruction writing Skills</b></p> <ul style="list-style-type: none"><li>• Research/gather facts about the topic</li><li>• Write in full sentences</li><li>• Improve punctuation</li><li>• Produce well written instructions</li></ul> | Title | The name of the piece of work. | Heading | Another name for title. | Sub-heading | Smaller titles in the piece of writing which gives the reader information about that piece of text. | introduction | Gives the reader a small piece of information about the text. | Method | How to do something | Organisational language | Time conjunctions and other grammar devices which organise the writing to give clear structure | Instructions | Explains how to make/create/do something | Diagram | Pictures/drawings with labels and captions | Paragraph | A distinct section of writing, dealing with one theme/subject | Technical language | Language specific to something e.g. astronauts would relate to space. | Tips | Extra information to help the reader | Conclusion | Final comment | Imperative verbs | Verbs which tell the reader to do something |
| Title                                                                                                                                                                                                                                                                                                                                        | The name of the piece of work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Heading                                                                                                                                                                                                                                                                                                                                      | Another name for title.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Sub-heading                                                                                                                                                                                                                                                                                                                                  | Smaller titles in the piece of writing which gives the reader information about that piece of text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| introduction                                                                                                                                                                                                                                                                                                                                 | Gives the reader a small piece of information about the text.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Method                                                                                                                                                                                                                                                                                                                                       | How to do something                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Organisational language                                                                                                                                                                                                                                                                                                                      | Time conjunctions and other grammar devices which organise the writing to give clear structure                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Instructions                                                                                                                                                                                                                                                                                                                                 | Explains how to make/create/do something                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Diagram                                                                                                                                                                                                                                                                                                                                      | Pictures/drawings with labels and captions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Paragraph                                                                                                                                                                                                                                                                                                                                    | A distinct section of writing, dealing with one theme/subject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Technical language                                                                                                                                                                                                                                                                                                                           | Language specific to something e.g. astronauts would relate to space.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Tips                                                                                                                                                                                                                                                                                                                                         | Extra information to help the reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Conclusion                                                                                                                                                                                                                                                                                                                                   | Final comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |
| Imperative verbs                                                                                                                                                                                                                                                                                                                             | Verbs which tell the reader to do something                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |                                |         |                         |             |                                                                                                     |              |                                                               |        |                     |                         |                                                                                                |              |                                          |         |                                            |           |                                                               |                    |                                                                       |      |                                      |            |               |                  |                                             |

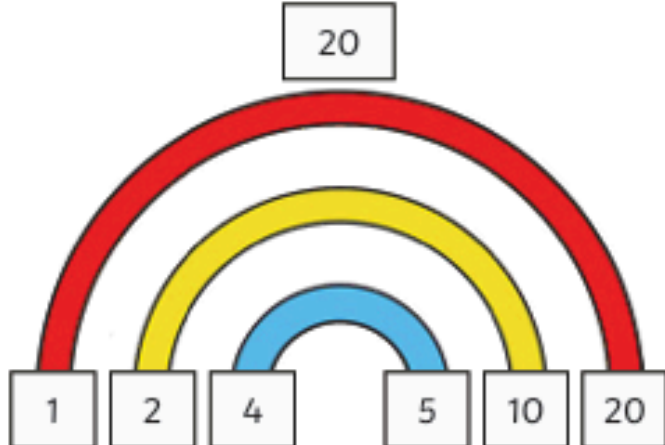
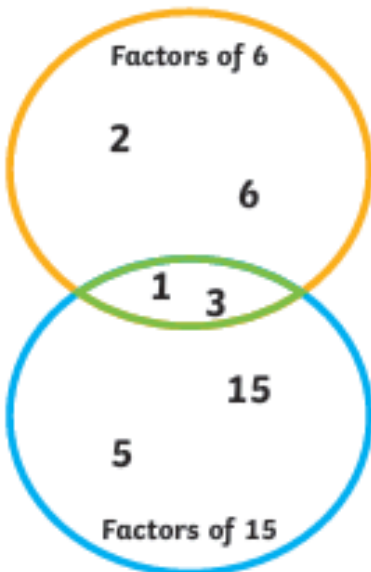
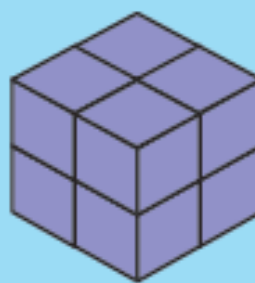
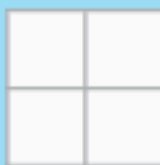
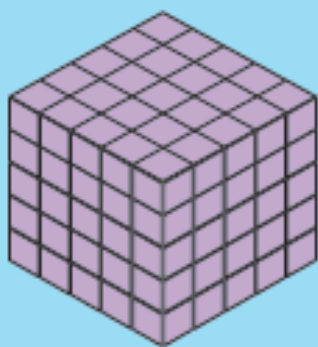
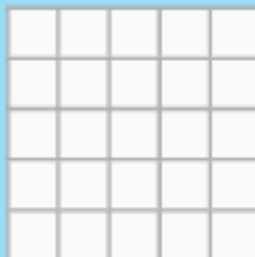


# Maths

| Fractions          |                                                                                                                                                                                            | Knowledge Organiser                                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Key Vocabulary     | Equivalent Fractions                                                                                                                                                                       | Compare and Order Fractions                                                                                                                                                                |
| numerator          | <p>To find equivalent fractions, we multiply or divide the numerator and denominator by the same number.</p> $\frac{1}{2} = \frac{5}{10} = \frac{50}{100}$                                 | <p>We can compare and order fractions by using common denominators.</p>                                                                                                                    |
| denominator        |                                                                                                                                                                                            |                                                                                                                                                                                            |
| unit fraction      |                                                                                                                                                                                            |                                                                                                                                                                                            |
| non-unit fraction  |                                                                                                                                                                                            |                                                                                                                                                                                            |
| whole              |                                                                                                                                                                                            |                                                                                                                                                                                            |
| equivalent         | Mixed Numbers                                                                                                                                                                              | Improper Fractions                                                                                                                                                                         |
| mixed number       | <p>Mixed numbers contain a whole number and a fraction.</p>                                                                                                                                | <p>An improper fraction has a numerator which is greater than or equal to the denominator.</p> $\frac{5}{3}$                                                                               |
| improper fraction  | Convert an Improper Fraction to a Mixed Number                                                                                                                                             | Convert a Mixed Number to an Improper Fraction                                                                                                                                             |
| simplest form      | <p><math>\frac{9}{4}</math></p> <p><math>9 \div 4 = 2r1</math></p> <p>Divide the numerator by the denominator.</p> <p>This shows you the whole number and the fraction.</p> $2\frac{1}{4}$ | <p>Multiply the whole by the denominator to make an improper fraction.</p> <p><math>2\frac{5}{6} = \frac{12}{6} + \frac{5}{6} = \frac{17}{6}</math></p> <p>Add the fractions together.</p> |
| multiple           | <b>Adding and Subtracting Fractions</b>                                                                                                                                                    |                                                                                                                                                                                            |
| common denominator | <p>To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.</p>                                     |                                                                                                                                                                                            |
| common numerator   |                                                                                                                                                                                            |                                                                                                                                                                                            |

| Fractions                                                                                                                                                                                                                                                                                       |                                           | Knowledge Organiser                                                                                                                                                                                                                 |                 |                              |          |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------|----------|--|--|--|
| Add Fractions Where the Total is Greater Than 1                                                                                                                                                                                                                                                 |                                           | Subtract from a Mixed Number                                                                                                                                                                                                        |                 |                              |          |  |  |  |
| $\frac{1}{2} + \frac{3}{4} + \frac{5}{8} = \frac{4}{8} + \frac{6}{8} + \frac{5}{8} = \frac{15}{8} = 1\frac{7}{8}$                                                                                                                                                                               |                                           | $1\frac{2}{3} - \frac{2}{9} = 1\frac{6}{9} - \frac{2}{9} = 1\frac{4}{9}$ <table border="1"> <tr> <th>starting number</th><th>find the equivalent fraction</th><th>subtract</th></tr> <tr> <td></td><td></td><td></td></tr> </table> | starting number | find the equivalent fraction | subtract |  |  |  |
| starting number                                                                                                                                                                                                                                                                                 | find the equivalent fraction              | subtract                                                                                                                                                                                                                            |                 |                              |          |  |  |  |
|                                                                                                                                                                                                                                                                                                 |                                           |                                                                                                                                                                                                                                     |                 |                              |          |  |  |  |
| Add Mixed Numbers                                                                                                                                                                                                                                                                               |                                           |                                                                                                                                                                                                                                     |                 |                              |          |  |  |  |
| $1\frac{1}{4} + \frac{3}{8} = 1\frac{2}{8} + \frac{3}{8} = 1\frac{5}{8}$ $1\frac{1}{4} + \frac{3}{8} = \frac{5}{4} + \frac{3}{8} = \frac{10}{8} + \frac{3}{8} = \frac{13}{8} = 1\frac{5}{8}$                                                                                                    |                                           |                                                                                                                                                                                                                                     |                 |                              |          |  |  |  |
| Multiply Unit Fractions by an Integer                                                                                                                                                                                                                                                           | Multiply Non-Unit Fractions by an Integer | Subtract Two Mixed Numbers                                                                                                                                                                                                          |                 |                              |          |  |  |  |
| $\frac{1}{3} \times 5 = \frac{5}{3}$                                                                                                                                                                                                                                                            | $2 \times \frac{4}{9} = \frac{8}{9}$      | $2\frac{3}{4} - 1\frac{5}{8} = 1\frac{1}{8}$ <p><math>2 - 1 = 1</math></p> <p><math>\frac{3}{4} - \frac{5}{8} = \frac{1}{8}</math></p>                                                                                              |                 |                              |          |  |  |  |
| Multiply Mixed Numbers by Integers                                                                                                                                                                                                                                                              |                                           | Subtract from a Mixed Number - Breaking the Whole                                                                                                                                                                                   |                 |                              |          |  |  |  |
| <p>Convert to an improper fraction and multiply the numerator by the integer.</p> $2\frac{1}{4} \times 2 = \frac{9}{4} \times 2 = \frac{18}{4} = 4\frac{2}{4} = 4\frac{1}{2}$ <p>Use repeated addition.</p> $2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$ |                                           | $2\frac{1}{4} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$                                                                                                                              |                 |                              |          |  |  |  |



| Multiplication and Division                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Knowledge Organiser                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------|---------------------|-----------------|-----------------|-------------------|-------------------|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| Key Vocabulary                                                                                                                            | Factors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Prime Numbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| multiply                                                                                                                                  | <p>A factor is a number that divides into another number exactly, without leaving a remainder.</p> <div><div>20</div></div> <p>The factors of 20 are 1, 2, 4, 5, 10 and 20.</p> <p>The factor pairs are:<br/>1 and 20<br/>2 and 10<br/>4 and 5</p> <div><p>A common factor is a factor of 2 or more numbers.</p></div>                                                                                                                                                                                    | <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr><tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr><tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr><tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr><tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr><tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr><tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr><tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr><tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr><tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr></table> | 1                 | 2                 | 3                   | 4                   | 5               | 6               | 7                 | 8                 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 1                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                 | 4                 | 5                   | 6                   | 7               | 8               | 9                 | 10                |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 11                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 13                | 14                | 15                  | 16                  | 17              | 18              | 19                | 20                |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 21                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 23                | 24                | 25                  | 26                  | 27              | 28              | 29                | 30                |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 31                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 33                | 34                | 35                  | 36                  | 37              | 38              | 39                | 40                |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 41                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 43                | 44                | 45                  | 46                  | 47              | 48              | 49                | 50                |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 51                                                                                                                                        | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 54                | 55                | 56                  | 57                  | 58              | 59              | 60                |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 61                                                                                                                                        | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 64                | 65                | 66                  | 67                  | 68              | 69              | 70                |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 71                                                                                                                                        | 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 74                | 75                | 76                  | 77                  | 78              | 79              | 80                |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 81                                                                                                                                        | 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 84                | 85                | 86                  | 87                  | 88              | 89              | 90                |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 91                                                                                                                                        | 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 94                | 95                | 96                  | 97                  | 98              | 99              | 100               |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| groups of                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| lots of                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| times                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| divide                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| share                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| remainder                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| factor                                                                                                                                    | Squared <sup>2</sup> and Cubed <sup>3</sup> Numbers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Related Calculations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| multiple                                                                                                                                  | <div><div></div><div><math>2^2 = 4</math><br/><math>2 \times 2 = 4</math></div><div><math>2^3 = 8</math><br/><math>2 \times 2 \times 2 = 8</math></div></div> <div><div></div><div><math>5^2 = 25</math><br/><math>5 \times 5 = 25</math></div><div><math>5^3 = 125</math><br/><math>5 \times 5 \times 5 = 125</math></div></div> | <table><tr><td><math>8 \times 9 = 72</math></td><td><math>9 \times 8 = 72</math></td></tr><tr><td><math>80 \times 9 = 720</math></td><td><math>90 \times 8 = 720</math></td></tr><tr><td><math>72 \div 9 = 8</math></td><td><math>72 \div 8 = 9</math></td></tr><tr><td><math>720 \div 9 = 80</math></td><td><math>720 \div 8 = 90</math></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $8 \times 9 = 72$ | $9 \times 8 = 72$ | $80 \times 9 = 720$ | $90 \times 8 = 720$ | $72 \div 9 = 8$ | $72 \div 8 = 9$ | $720 \div 9 = 80$ | $720 \div 8 = 90$ |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| $8 \times 9 = 72$                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | $9 \times 8 = 72$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| $80 \times 9 = 720$                                                                                                                       | $90 \times 8 = 720$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| $72 \div 9 = 8$                                                                                                                           | $72 \div 8 = 9$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| $720 \div 9 = 80$                                                                                                                         | $720 \div 8 = 90$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| product                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|  visit <a href="https://www.twinkl.com">twinkl.com</a> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                   |                     |                     |                 |                 |                   |                   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

| Multiplication and Division                                                                                                                                                                                                                                                                                                                                                                                                                  |   |   |   |   | Knowledge Organiser |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|---|---|---|---|---|---|---|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|--|---|---|--|--|--|
| Short Multiplication                                                                                                                                                                                                                                                                                                                                                                                                                         |   |   |   |   | Long Multiplication |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| <div>2543 × 7 = 17 801</div> <div><table><tr><td></td><td>2</td><td>5</td><td>4</td><td>3</td></tr><tr><td>×</td><td></td><td></td><td></td><td>7</td></tr><tr><td>1</td><td>7</td><td>8</td><td>0</td><td>1</td></tr><tr><td>1</td><td>3</td><td>3</td><td>2</td><td></td></tr></table></div> <div>Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.</div> |   |   |   |   |                     | 2 | 5 | 4 | 3 | × |   |   |   | 7 | 1 | 7 | 8 | 0 | 1 | 1 | 3 | 3 | 2 |   | <div>2543 × 67 = 170 381</div> <div><table><tr><td></td><td></td><td>2</td><td>5</td><td>4</td><td>3</td></tr><tr><td></td><td>×</td><td></td><td></td><td>6</td><td>7</td></tr><tr><td></td><td>1</td><td>7</td><td>8</td><td>0</td><td>1</td></tr><tr><td>1</td><td>5</td><td>2</td><td>5</td><td>8</td><td>0</td></tr><tr><td>1</td><td>3</td><td>2</td><td>1</td><td></td><td></td></tr><tr><td>1</td><td>7</td><td>0</td><td>3</td><td>8</td><td>1</td></tr><tr><td></td><td>1</td><td>1</td><td></td><td></td><td></td></tr></table></div> <div>Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).</div> |  |  |   |                                                                                                                                                                                                                                              |  |  | 2 | 5 | 4 | 3 |   | × |   |   | 6 | 7 |                                                                                                                                                                                                                                                                                                                              | 1 | 7 | 8 | 0 | 1 | 1 | 5 | 2 | 5 | 8 | 0 | 1 | 3 | 2 | 1 |   |  | 1 | 7 | 0 | 3 | 8 | 1 |  | 1 | 1 |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 | 5 | 4 | 3 |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| ×                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |   |   | 7 |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7 | 8 | 0 | 1 |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 | 3 | 2 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | 2 | 5 | 4 | 3                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | × |   |   | 6 | 7                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 | 7 | 8 | 0 | 1                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                            | 5 | 2 | 5 | 8 | 0                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 | 2 | 1 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7 | 0 | 3 | 8 | 1                   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1 | 1 |   |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| Division                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |   |   |   | Short Division      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| <div>136 ÷ 4 = 34</div> <div><table><tr><td></td><td></td><td>3</td><td>4</td></tr><tr><td>4</td><td>1</td><td>3</td><td>6</td></tr><tr><td>-</td><td>1</td><td>2</td><td>0</td></tr><tr><td></td><td></td><td>1</td><td>6</td></tr><tr><td></td><td>-</td><td>1</td><td>6</td></tr><tr><td></td><td></td><td></td><td>0</td></tr></table><div>30 × 4</div><div>4 × 4</div></div>                                                            |   |   |   |   |                     |   | 3 | 4 | 4 | 1 | 3 | 6 | - | 1 | 2 | 0 |   |   | 1 | 6 |   | - | 1 | 6 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  | 0 | <div><table><tr><td></td><td></td><td>3</td><td>8</td></tr><tr><td>4</td><td>1</td><td>5</td><td>2</td></tr></table><div>15 ÷ 4 = 3 remainder 3</div><div>Remember to regroup any remainders and move them into the next column.</div></div> |  |  |   |   |   |   | 3 | 8 | 4 | 1 | 5 | 2 | <div><table><tr><td></td><td></td><td>4</td><td>5</td><td>5</td><td>r</td><td>3</td></tr><tr><td>5</td><td>2</td><td>2</td><td>7</td><td>8</td><td></td><td></td></tr></table><div>28 ÷ 5 = 5 remainder 3</div><div>If your calculation has a remainder, remember to record it in the answer using the letter r.</div></div> |   |   |   |   |   |   | 4 | 5 | 5 | r | 3 | 5 | 2 | 2 | 7 | 8 |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | 3 | 4 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 3 | 6 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1 | 2 | 0 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              |   | 1 | 6 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 1 | 6 |   |                     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |   |                                                                                                                                                                                                                                              |  |  |   |   |   |   |   |   |   |   |   |   |                                                                                                                                                                                                                                                                                                                              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |   |   |   |   |   |   |  |   |   |  |  |  |
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# Science

Knowledge Organiser: Living Things and their Habitats  
Year 6

Careers connected to Living Things and their habitats:  
Zoologist, Veterinary Surgeon, Biologist

Lesson Sequence

1. Classify living things

2. Understand the Kingdoms of Life

3. Classify living things using the Linnaean system

4. Identify the characteristics of different types of microorganisms

5. Investigate asexual reproduction through spore dispersal

6. Classify and describe a living organism

Fungi

Fungi gain energy from dead matter.

MRS GREN

**M** Movement  
**R** Respiration  
**S** Sensitivity  
**G** Growth  
**R** Reproduce  
**E** Excretion  
**N** Nutrition

Classification of Animals

Classification

Carl Linnaeus

Carl Linnaeus created a system of classification, which ranks living things into groups in order to name their species.

|         |              |
|---------|--------------|
| DOMAIN  | Eukarya      |
| KINGDOM | Animalia     |
| PHYLUM  | Chordata     |
| CLASS   | Mammalia     |
| ORDER   | Primates     |
| FAMILY  | Hominidae    |
| GENUS   | Homo         |
| SPECIES | Homo sapiens |

Six Kingdoms of Life

Microorganisms

Antibiotics, yoghurt, cheese, wine and yeast are all **helpful bacteria**.

Mould, food poisoning and athletes foot are **harmful bacteria**.

| Rocket Words |                 |                                                                                               |
|--------------|-----------------|-----------------------------------------------------------------------------------------------|
|              | classification  | The arrangement of animals and plants in groups according to their observed similarities.     |
|              | microorganism   | A tiny, microscopic organism such as bacteria, virus or fungus.                               |
|              | habitat         | A place where living organisms live.                                                          |
|              | living organism | Something that can move, use energy and reproduce.                                            |
|              | species         | The smallest class of organisms.                                                              |
|              | microscopic     | A microscopic organism, too small to see with the naked eye.                                  |
|              | ecosystem       | A group of living organisms that live and interact with each other in a specific environment. |
|              | kingdom         | A category grouping together all forms of life, having certain characteristics in common.     |
|              | Linnaean System | A diverse kingdom which include mushrooms and brewer's yeasts.                                |
|              | cell            | The smallest structural and functional unit of an organism.                                   |



# RE

## Being a Hindu: UKS2 Knowledge Mat (U2.7 Y6)

| Subject Specific Vocabulary                                                                      |                                                                                                |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Dharma</b>   | A Hindu's religious and moral duty.                                                            |
| <b>Samsara</b>  | The cycle of birth, death and rebirth that Hindus believe in.                                  |
| <b>Karma</b>                                                                                     | The cycle of what happens to a person is a result of their own actions.                        |
| <b><u>Punusharthas</u></b>                                                                       | Four aims of life that Hindus believe in                                                       |
| <b><u>Artha</u></b>                                                                              | The pursuit of wealth or material advantage; providing for family and society by honest means. |
| <b>Moksha</b>                                                                                    | The release from the cycle of birth, death and rebirth.                                        |
| <b>Reincarnation</b>                                                                             | The rebirth of a soul in another body.                                                         |

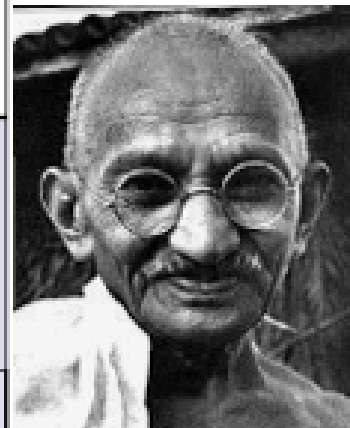


**Sticky Knowledge – Why do Hindus want to be good?**  
(links to L2.7 and L2.8)

- ❑ Hinduism is a diverse religion so it difficult to say that all Hindus believe in... However, the beliefs in d'hurma, karm, sansara and moksha are commonly held.
- ❑ The story of Mahabharata (The man in the Well) warns Hindus that they should pay attention to finding the way to escape the cycle of birth, death and rebirth.
- ❑ Hindus have four aims in life: d'hurma, artha, karma and moksha. Each one is more important than the previous.
- ❑ Hindus ultimate goal is to be released from samsara (the cycle of birth, death and rebirth).

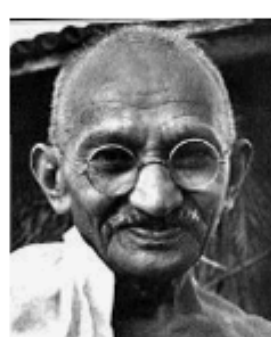


Sachin Tendulkar – international cricketer



Mahatma Gandhi – lawyer and peaceful political activist

**Exciting Books**  


| Subject Specific Vocabulary |                                                                                                                                               | What do Hindus believe?                                                              | Who's this?                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Dharma                      | A Hindu's  ous and moral duty.                             |  |  |
| Samsara                     | The cycle of birth, death and rebirth that Hindus believe  |                                                                                      |                                                                                       |
| Karma                       | The cycle of what happens to a person is a result of their own actions.                                                                       |                                                                                      |                                                                                       |
| Punusharthas                | Four aims of life that Hindus believe in                                                                                                      | Sticky Knowledge – Why do Hindus want to be good?                                    |                                                                                       |
| Artha                       | The pursuit of wealth or material advantage; providing for family and society by honest means.                                                | <input type="checkbox"/> Why do Hindus tell the story of Mahabharata.                |                                                                                       |
| Moksha                      | The release from the cycle of birth, death and rebirth.                                                                                       | What are the 4 aims in life?                                                         |                                                                                       |
| Reincarnation               | The rebirth of a soul in another body.                                                                                                        | What is their ultimate goal?                                                         |                                                                                       |



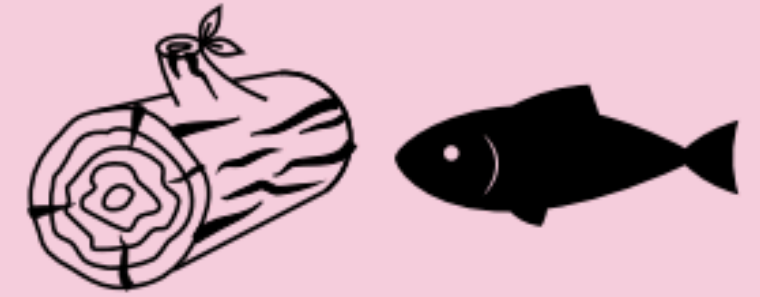
# History

## Were the Vikings raiders, traders or something else?

|                           |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|
| <b>achievement</b>        | Something good that you achieve.                                                  |
| <b>balanced viewpoint</b> | Considering all views in a fair way.                                              |
| <b>exchange</b>           | Giving something to someone and receiving something in return.                    |
| <b>impact</b>             | The effect that a person, event, or situation has on someone or something.        |
| <b>impression</b>         | An idea, feeling or opinion about something.                                      |
| <b>Jorvik</b>             | The Viking city of York.                                                          |
| <b>oral tradition</b>     | The passing of stories and poems by word of mouth from one generation to another. |
| <b>saga</b>               | A long story of heroic achievement found in Norse literature.                     |
| <b>stereotype</b>         | A fixed idea that people have about what a particular type of person is like.     |
| <b>Vikings</b>            | A group of Scandinavian people who lived from the eighth to the eleventh century. |

### Traders

Using longboats, the Vikings established trading routes throughout Europe and as far as America, Iraq and Jerusalem. They sold items like timber, wheat, wool, fur and fish; and exchanged them for silver, spices, wine, jewellery, silk and glass.



### Raiders

The Viking raids of Britain started in AD 793 when Lindisfarne's monastery was attacked. In general, the Vikings raided in the summer when it was easier to cross the sea. They stole valuable items from monasteries and villages, and they enslaved people before returning home. For the Vikings, raiding demonstrated bravery - a characteristic they valued highly.

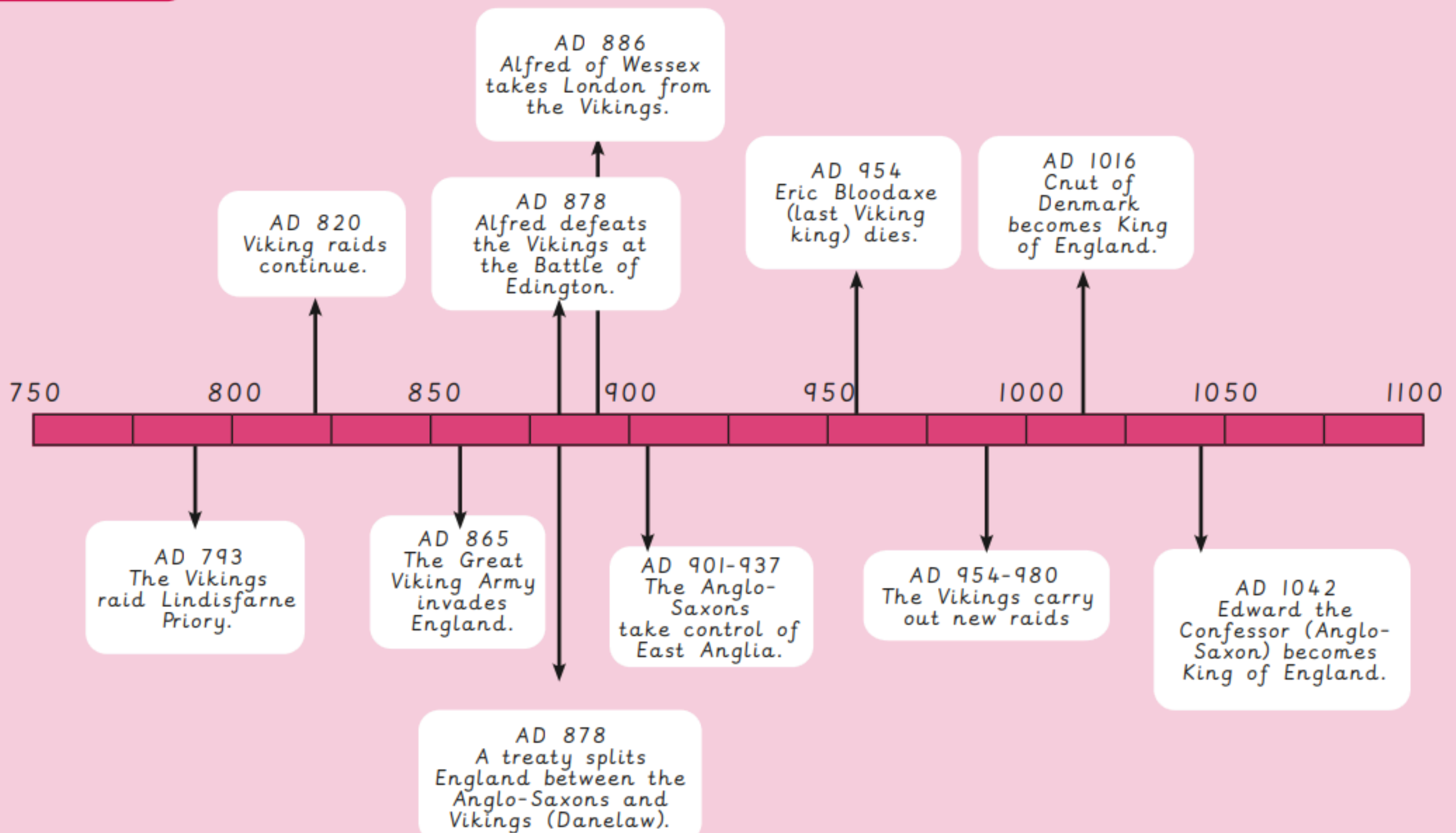


### Settlers

In Britain, the Vikings started to stay over the winter months. Eventually, they settled down on land they had seized in eastern and northern England. Sometimes, the Anglo-Saxons gave them land to stop the Vikings from attacking them. In AD 878, Alfred the Great made a peace deal with the Vikings which split England into Anglo-Saxon and Viking-controlled areas. The Viking area, known as Danelaw, was settled and peaceful.



## Timeline





# French

## Ma famille

**phonics**

sound in: **i** • *petite* 

sound in: **in** • *cinq* 5  
• *cinquante* 50

sound in: **ille** • *famille* 

Sound in: **ique** • *unique*

**silent letters** There are many final consonant silent letters in French. The final letters 'ts' are silent in the word 'parents'.

**vocabulary**

The nouns & articles/determiners for family members.



The words for the possessive adjective 'my' in French:

**mon**   **ma**   **mes**

Larger numbers in French (1-70) and the multiples of ten up to 100:

10   20   30   40   50   60   70   80   90   100

High frequency verbs:

**il/elle s'appelle**   **il/elle a**

*he/she is called*   *he/she has*

**grammar**

To fully understand the role of gender and plurality in the choice of possessive adjectives.

**mon frère**    **ma sœur** 

*Singular possessive adjective 'my' for masculine nouns*   *Singular possessive adjective 'my' for feminine nouns*

**mes grands-parents** 

*Possessive adjective 'my' for plural nouns*

To move from the 1<sup>st</sup> person conjugation of high frequency verbs to 3<sup>rd</sup> person singular.

**j'ai**   **il/elle a**

*I have*   *he/she has*

### What I will learn:

- ☐ Objective 1: I will learn the nouns and articles/determiners for several family members in French.
- ☐ Objective 2: I will learn how to move from using the article/determiner 'the' with a family member noun to using the possessive adjective 'my' in French.
- ☐ Objective 3: I will learn to answer the question '*As-tu des frères et sœurs ?*' (*Do you have any brothers or sisters?*)
- ☐ Objective 4: I will learn how to introduce family members, learning to use '*il/elle s'appelle*' (*he/she is called*).
- ☐ Objective 5: I will use my knowledge of larger numbers to be able to describe the age of family members in French.

## Ma famille



la mère



le père



Frank



le frère



la grande sœur



la petite sœur



la grand-mère



le grand-père



la tante



l'oncle



# PSHE

PSHE



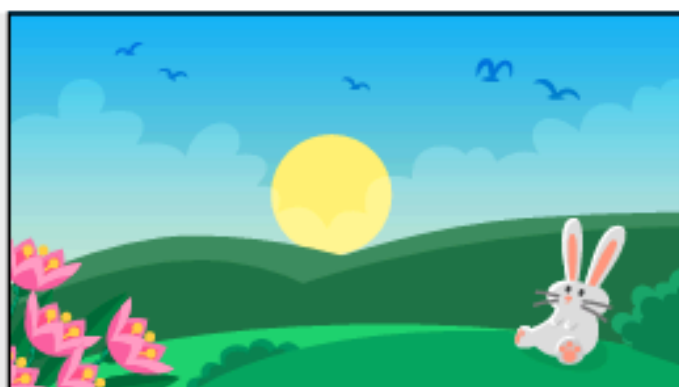
# Art

## Art and design - Drawing



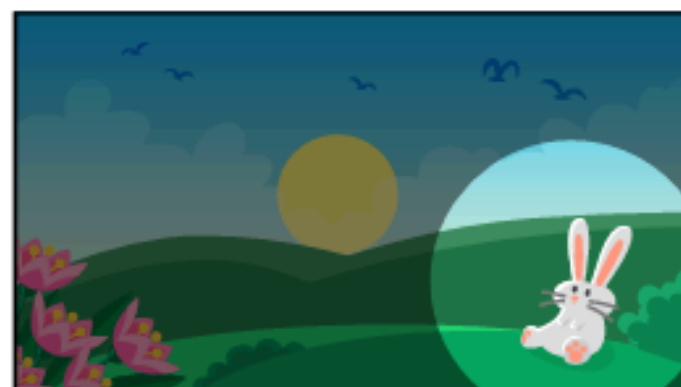
### Main subject\*

The central theme or object of an artwork.

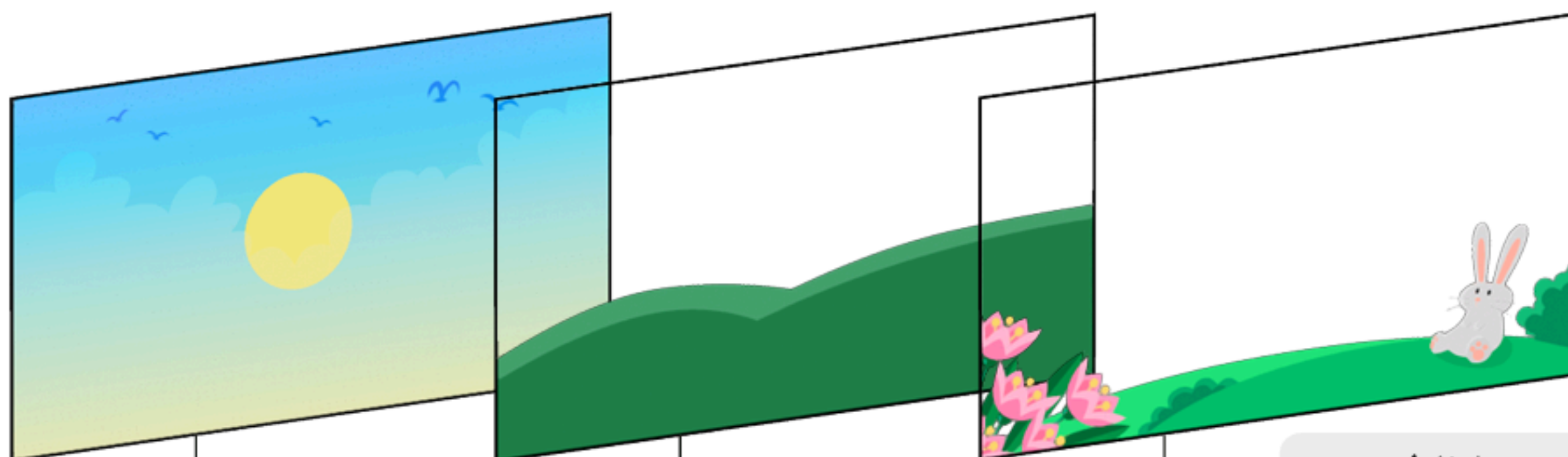


### Focal point\*

Part of a composition that catches the eye first.



**Depth:\*** The feeling in a picture that some things are closer and others are farther away.



### Background\*

The area of a picture that looks farthest away, often behind the main subject.

### Middle ground\*

Part of an artwork positioned between the foreground and background.

### Foreground\*

The part of a picture that looks closest to the viewer, usually where the main subject is.

### Artists

- Jean-Michel.
- Charlie Mackesy.
- Elizabeth Catlett.
- John Muafangejo.

1

\*key vocabulary

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## Art and design - Drawing



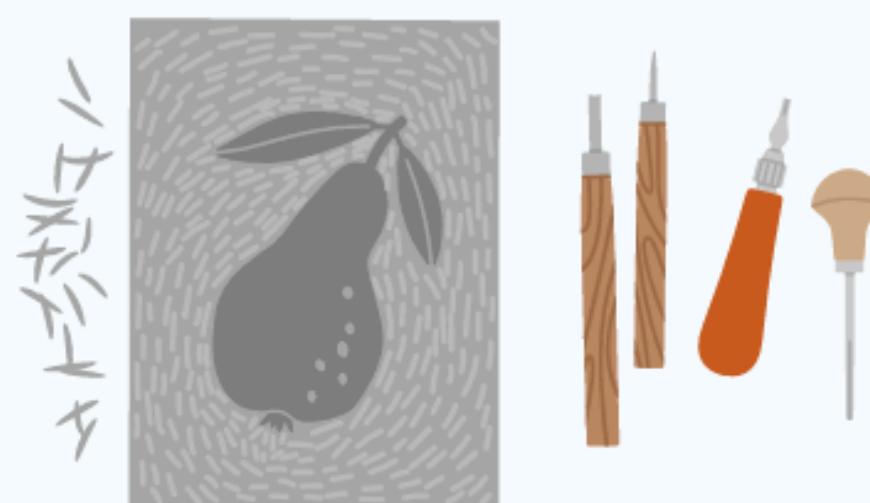
### Lino printing

1



Draw a simple design and transfer the design onto the lino with tracing paper or pencil.

2



Use lino cutters to carve away at the parts to stay white.

3



Roll the ink out evenly using a brayer and apply it to the lino block.

4



Press a paper onto the lino and rub the back evenly, then carefully peel off the paper and let the print dry completely.

2



# Computing

## Computing - Search engines

|                     |                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------|
| copyright           | The law which states that anything created belongs to the person who created it.                                              |
| fake news           | False and inaccurate information that is shared in a convincing way, usually on social media and in websites.                 |
| inaccurate          | When information is false and untrue.                                                                                         |
| index               | A database where a computer saves key information about websites to make future searches faster.                              |
| keywords (internet) | A set of words used to define and produce an accurate search engine result.                                                   |
| search engine       | A website that helps people find information on the world wide web.                                                           |
| TASK                | Title, Author, Summary, Kids.                                                                                                 |
| web crawler         | A program that searches the world wide web using keywords in a systematic way to find the most relevant results for the user. |
| website             | A collection of web pages and content that belong to a single domain, accessible through an internet browser.                 |
| www                 | Stands for world wide web and is found at the beginning of website addresses.                                                 |



← → ↻ 🏠 🔒 <https://www.kapowiverse.com> ☆

# Kapowiverse

search bar

Search... Dinosaurs Go

All 🌐 Images 🖼️ Videos ▶ News 📰

<https://www.dinoearth.com> **Dino website** **DINO** **company logo**  
Watch and learn about different dinosaurs.  
Dinosaurs T-Rex Jurassic history

<https://www.dinosaurdirectory.com> **A-Z Dinosaur names library** **hyperlink**  
What can you learn about all of the dinosaurs from A-Z?  
Dinosaur directory A-Z Dinosaurs

[https://www.jurassic\\_history.com](https://www.jurassic_history.com) **Jurassic time line** **keywords**  
How did dinosaurs become extinct? Explore all of the key dinosaur facts here!  
Jurassic time line Dinosaurs

[http://www.London\\_apatosaurus.com](http://www.London_apatosaurus.com) **Apotosaurus sightings** **fake news**  
A sauropod herbivorous dinosaur has been captured in the centre of London city! Book your ticket for just £1,000 today!  
Apotosaurus Dinosaur Sighting

A screenshot of the Kapowiverse website. The page has a light blue background. At the top, there's a navigation bar with a search bar and a "Go" button. Below the navigation bar, there's a large "Kapowiverse" logo. To the right of the logo, there's a "search bar" label. Below the logo, there's a "Dino website" section with a "DINO" logo and a "company logo" label. To the left of the "Dino website" section, there's a "Jurassic time line" section with a "keywords" label. Below the "Jurassic time line" section, there's a "Dinosaur names library" section with a "hyperlink" label. At the bottom, there's a "Apotosaurus sightings" section with a "fake news" label. The page also features a "Dinosaur directory" section with a "A-Z Dinosaurs" link.