KNOWLEDGE ORGANISERS YEAR 5

BADGERS

AUTUMN 2025

AS WRITERS...

Using the award winning 2012 Guardian advert 'Three Little Pigs', this Writing Root gives the children opportunities to explore journalistic writing by identifying viewpoint and bias. It also looks at other writing which requires a 'stance' or point of view portrayed from a particular angle, such as a diary, a defence case for a lawyer and balanced debate/discussion text. There will be opportunities for embedded grammar work throughout, in particular that of active and passive voice and the role these can play in reported events.

AS MATHEMATICIANS...

We will be using all of our knowledge in mastering activities, both mental and written. We will look at place value and the four operations 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. .

AS GEOGRAPHERS...

We will be looking at the big question

What is life like in the Alps?

The unit introduces pupils to the concept of tourism in mountainous areas, examining activities like skiing and hiking, and encourages map skills by locating the Alps within Europe

AS LINGUISTS....

The children will learn all about the weather. They will build on previous knowledge and pupils will need to remember how each weather phrase starts.

AS PEOPLE OF FAITH IN RE..

We will be thinking about the question:-

What does it mean if Christians believe God is holy and loving?

AS SCIENTISTS...

The children will look at living things and their habitats by building on work from previous years and deepens the children's understanding of life cycles, reproduction and animal characteristics. New concepts such as asexual reproduction and metamorphosis are introduced to help the children understand how life cycles are constantly progressing, whilst pre-existing concepts are continually referenced and built upon to aid recall and scaffold learning. A blend of science and creativity will capture the children's imagination during our Mission Assignments, where they will have the opportunity to dissect an egg, pretend to be David Attenborough or Jane Goodall as they research their favourite creature and even create their own reports on world-renowned scientists.

IN PHSE...

This unit helps pupils understand the importance of empathy, respect, and effective communication. The unit also addresses the impact of stereotypes related to gender, race, and religion, encouraging pupils to challenge discriminatory attitudes and behaviours. This unit reinforces key concepts, fostering a deeper understanding of healthy relationships and personal identity.

As ARTISTS-

We will be studying movement. This brand-new unit offers fresh, engaging content designed to reinforce key skills, inspire creativity and support pupils' artistic development. The updates include a clearer and more structured progression of knowledge and skills, broader exposure to diverse artists and new educational videos for both teachers and pupils.

AS MUSICIANS...

Children will be learning about pulse. In this unit, children will work in small groups, composing rhythm patterns which are then practised with an emphasis on maintaining pulse. They will explore graphic and standard notation, using crotchets, quavers, minims, semibreves and rests and compare how these representations can look when placed side by side.

AS SPORT STARS ..

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

English

Year 5 Letter Writing

Topic: letters	Phase: KS2	Strand: Non-fiction/fiction

What should I already know?

- Know where the sender's address goes
- Write the date of the letter
- Write an appropriate greeting e.g. dear,
- Write and introduction and use paragraphs
- Write in first person
- Know whether it is a formal or informal letter
- Sign off letter appropriately yours faithfully or yours sincerely

What will I know by the end of the unit?

- Know where the sender's address goes
- Write the date of the letter
- Write an appropriate greeting
- Write and introduction and use paragraphs
- Write in first person
- Write a conclusion
- Know whether it is a formal or informal letter
- Sign off letter appropriately
- Write a range of well-structured letters
- To be able to include all appropriate requirements from the year 5 banding sheet for writing

Diagrams/WAGOLL

Church Cottage,
Little Weirwold,
Buckinghamshire,
BK54 1AS

Billeting Office,
Village Hall,
Little Weirwold,
Buckinghamshire,
BK65 3DS

23rd September 1939

To whom it may concern,

My name is Mr Tom Oakley and I am writing to you regarding the rumours of some city children being evacuated to our community. I am very concerned about the news that some evacuees may be being placed in the homes of Little Weirwold residents. Whilst I have the deepest sympathy for them, I need to explain why my home would not be a suitable placement for a city evacuee.

Firstly, I am a very busy, overworked man with very little free time. My little cottage is situated on the church grounds, which is next to the village cemetery. The cemetery requires a large amount of upkeep. The grass, which grows very rapidly in summer, needs trimming almost every other day and this recent wetter weather causes unsightly weeds to sprout in between the graves. The weeds must be pulled out by hand, which makes this is a very time-consuming activity for me. Due to the ornate design of many of the gravestones, they also require specialist cleaning to remove any moss or dirt on them without causing scratches or damage. You're probably thinking that an evacuee could help me in my duties. However, I am certain that a child, especially a city child, would not have the expertise, skills or respectfulness needed to work in the burial ground alongside me.

In addition, I feel I am not the most suitable adult to care for one of these evacuees. These children, whose lives have been affected by war in the past few months, will need sufficient comfort and love. Unfortunately, I am certainly not the man to offer that sort of household. Our village is full of caring mother-types, who would make the children feel much more secure than I ever could. Some men are cut out for that sort of thing. Others, like myself, leave that kind of thing to the women and sadly my wife is no longer with me. Surely, you wouldn't want to place a poor child in an environment that didn't offer them the empathy they needed.

Finally, I simply do not have room for a child in my home. I am a humble man with a modest cottage that has only two small bedrooms. The belongings in the second bedroom are that of my late son and under no circumstance will I have a city child ever touching them.

For all the reasons that I have mentioned, I would be very grateful if you would remove me from your list of potential guardians. I am a proud, patriotic man - who is willing to do anything to support my country - but it would foolish to expect me to accommodate an evacuee child. Please feel free to contact me should I be of use to you in any other way to aid the war effort.

Yours faithfully,

Mr Tom Oakley

Vocabulary

Letter	Text that you send to someone
Sender	The person sending the letter
Recipient	Person receiving the letter
Greeting	How you open the letter e.g. dear, hi etc.
Formal letter	Professional e.g. letter of complaint
Informal letter	Chatty language
Sign off	How to end the letter e.g. yours faithfully, yours sincerely
Yours faithfully	When you do not know the name of the person you are writing to
Yours sincerely	When you know the person/name of the person you are writing to

Letter writing Skills

- Research/gather facts about the topic
- Write in full sentences
- Improve punctuation
- Produce well written letters both formal and informal

Year 5 Newspaper

What should I already know?

- Know that newspapers have headlines
- Know to include the 5ws
- Know to include quotes
- Know to include pictures
- Know to write in paragraphs
- To have read a range of articles and written a range of reports
- To include quotes written as direct speech

What will I know by the end of the unit?

- Have read newspaper articles and know what newspaper articles look like
- Have written a range of reports
- Know to include a headline
- Know that the introductory paragraph should include the 5ws
- Know that the main body of the text explains the event in detail
- Know what a caption
- Know how to include a direct quotation
- Know that newspaper reports are written in columns

Diagrams/WAGOLL

The Sporting Telegraph

www.sporting-telegraph.com — The Number One Sports Newspaper

Brilliant Bolt Grabs Gold Again!

Jamaican Sprinter Takes London by Storm Winning Three Olympic Gold Medals

Exclusive Report by John Stevenson

Usain Bolt reaffirmed his title as the World's Fastest Man by achieving a marvellous third gold medal of the games this week. In front of a deafening capacity crowd in London's Olympic Stadium, the 25-year-old world record holder completed a remarkable set of victories to establish himself as one of the greatest sprinters of all time.

Following earlier victories in both the 100m and 200m individual sprint, Bolt inspired his Jamaica team-mates to a third triumph in the 4x100m relay. The three gold medals are added to his personal collection alongside similar achievements in the corresponding individual events of Beijing in 2008.

Usain Bolt: winner of three Olympic gold medals in London

The sprinter's Jamaican team-mates were equally jubilant following their relay victory, describing it as a momentous day in Athletics history. Even the American team, who were disqualified from the relay following a disastrous illegal baton handover, were gracious in defeat. Admitting disappointment at missing out on a team medal, Justin Gatlin promised supporters that the team had given it all they could and refused to criticise the officials' decision, but did apologise to the US fans.

Afterwards, the reigning 100m and 200m world champion was understandably buoyant in his celebrations.

"It's a brilliant feeling. It's been a long road. I'm happy, but I'm relieved. It's great to be in the history books as one of the greatest. I'm proud of myself," he told reporters.

Although other athletes have won more medals than Bolt, including American sprinter Carl Lewis who was commentating for a television network, no-one else can match the explosive power and unrivalled pace exhibited by Bolt.

Now thinking ahead to his future and the potential of bringing down the curtain on a glittering Athletics career, Bolt confirmed that he intends to compete in 2016 but retire before the next Olympic Games in 2020. Instead, he will focus on charity work, a likely ambassador role in the sport or could even consider a dramatic switch to another sport such as football. As the crowds filtered out of the magnificent stadium, the talk was all about just one man - the incredible Usain Bolt, who is surely already an Olympic legend.

Vocabulary

Recount	It tells us something that has happened
Article	A piece of writing made for publication
news	Information about recent and important events
Newspaper	A daily or weekly publication on folded sheets
Headline	A heading at the top of an article or page in a newspaper or magazine.
5ws	Who, what, when, where, why
Facts	A piece of information about facts that have occurred
Formal tone	Using standard English and writing professionally
Chronological order	In time order of events
Caption	A brief description accompanying an illustration

Newspaper report writing Skills

- Learn journalistic skills
- Ask questions
- Develop an inquisitive mind
- Think like a detective
- Write well written newspaper reports

Maths

Number and Place Value — Knowledge Organiser

Key Vocabulary

- millions
- thousands
- hundreds
- tens
- ones
- zero
- place value
- greater than
- less than
- order
- round
- rounded
- negative number
- partition
- digit
- interval
- sequence
- linear sequence

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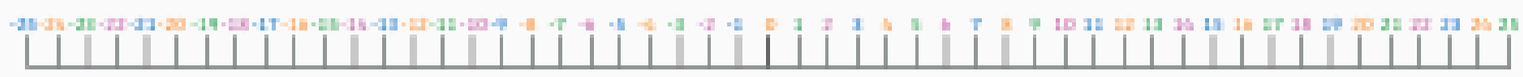
Compare and Order

equals	greater than	less than
26 + 38 = 8 × 8	23 873 > 8256	901 198 < 1 091 098
Both calculations have the value 64.	The number on the left has 2 ten thousands and the number on the right has 0 ten thousands.	The number on the right has 1 million and the number on the left has 0 millions.

smallest | 898 | 6735 | 6835 | 7019 | 9002 | 11 235 | greatest

Negative Numbers



Counting in Powers of 10

Counting in 10s

365	375	385	395	405	415

The tens increase until 9 tens becomes one more hundred and 0 tens.

Counting in 100s

2841	2941	3041	3141	3241	3341

The hundreds increase until 9 hundreds becomes one more thousand and 0 hundreds.

Counting in 10 000s

276 109	286 109	296 109	306 109

The ten thousands increase until 9 ten thousands become one more hundred thousand and 0 ten thousands.

Counting in 100 000s

2 972 151	3 072 151	3 172 151	3 272 151

The hundred thousands increase until 9 hundred thousands becomes one more million and 0 hundred thousands.

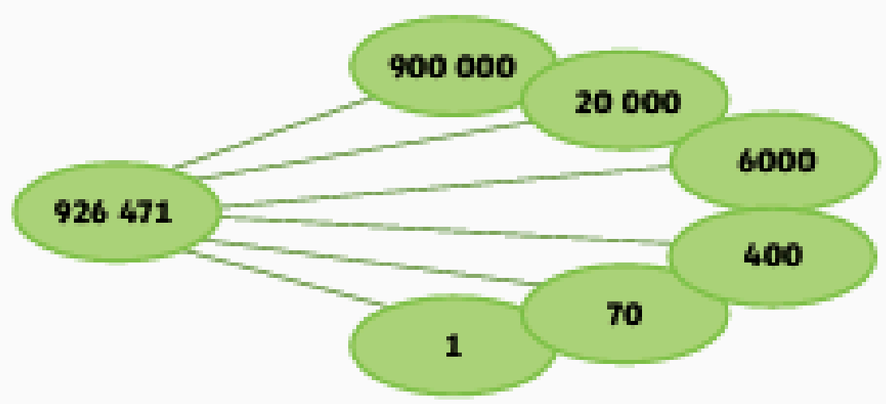
Number and Place Value — Knowledge Organiser

Numbers to One Million

926 471

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
9	2	6	4	7	1

nine hundred and twenty-six thousand, four hundred and seventy-one



Roman Numerals

	I = 1	II = 2	III = 3	
IV = 4	V = 5	VI = 6	VII = 7	VIII = 8
IX = 9	X = 10	XI = 11	XX = 20	XXX = 30
XL = 40	L = 50	LX = 60	LXX = 70	LXXX = 80
XC = 90	C = 100	CL = 150	CC = 200	CCC = 300
CD = 400	D = 500	DC = 600	DCC = 700	DCCC = 800
CM = 900	M = 1000	MC = 1100	MD = 1500	MM = 2000

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CCXLVIII = 248 DCCLXXXIV = 784 MMXIX = 2019

Rounding

Rounding to the nearest 10

20	21	22	23	24	25	26	27	28	29	30

round down ← | → round up

Rounding to the nearest 1000

2000 ← 2499 | 2500 → 3000

round down | round up

Rounding to the nearest 100 000

200 000 ← 249 999 | 250 000 → 300 000

round down | round up

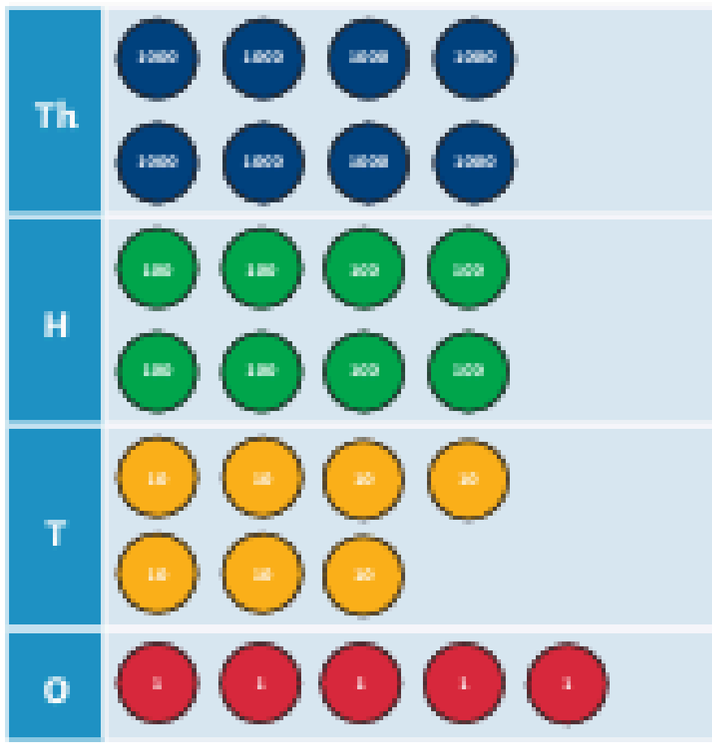
Addition and Subtraction — Knowledge Organiser

Key Vocabulary

- Add
- Total
- Make
- Plus
- Sum
- More
- Altogether
- Difference
- Subtract
- Less
- Minus
- Take away
- Column addition
- Column subtraction
- Estimate
- Inverse operation
- Number facts
- Place value
- Complex

Addition

Place Value Grid: 3274 + 5601 = 8875

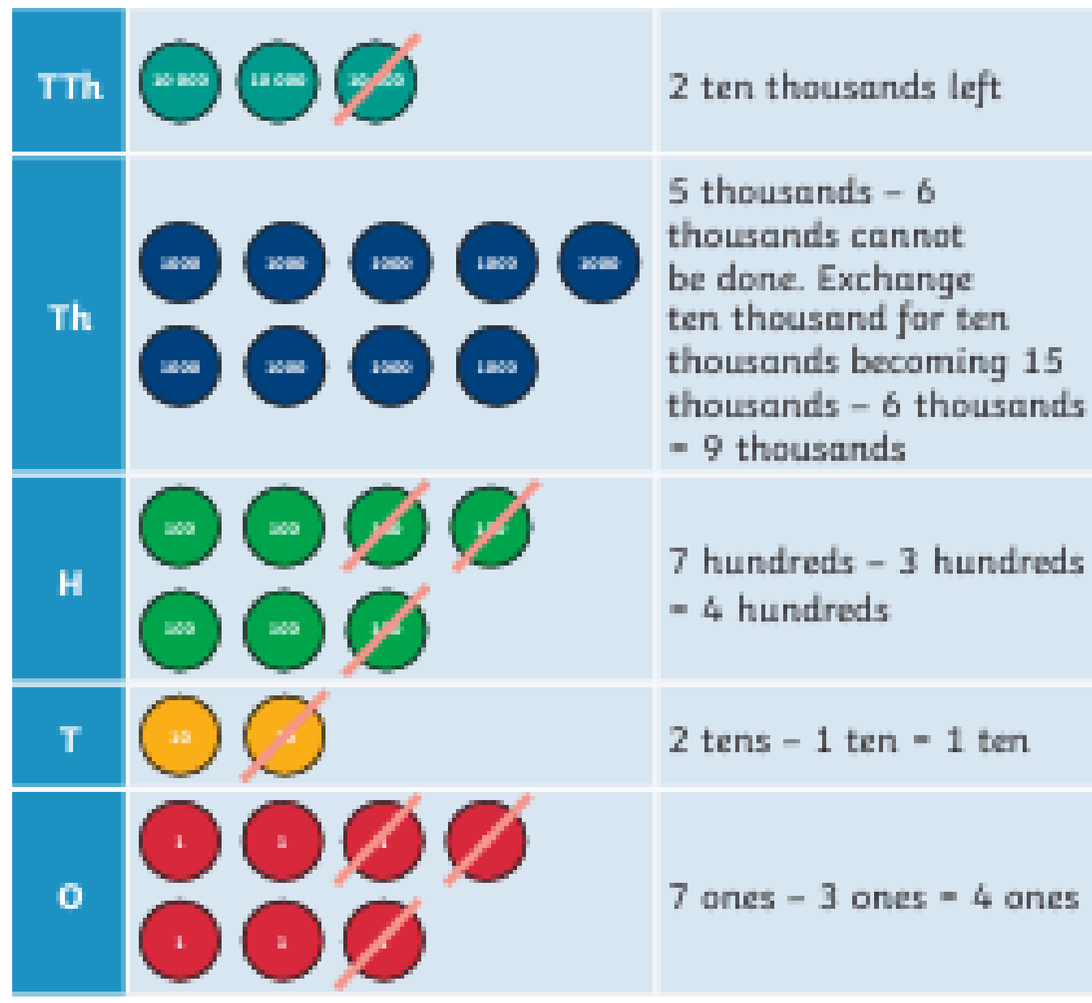


Column Method

Starting with the ones, add each column in turn. Regroup tens, hundreds, thousands, ten thousands and/or as required.

Subtraction

Place Value Grid: 35 727 – 6313 = 29 414



Column Method

Starting with the ones, subtract each column in turn. Exchange tens, hundreds, thousands and/or ten thousands as required.

Addition and Subtraction — Knowledge Organiser

Estimate and Approximate

Rounding to Estimate

41 635 + 7386 = 49 021

Round to ten:

41 630 + 7380 = 49 010

41 630 + 7390 = 49 020

41 640 + 7390 = 49 030

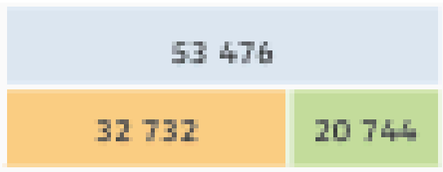
Rounding is not as accurate when both numbers are rounded up. A better estimate comes from "rounding" one down and one up.

Estimating on a Number Line

The arrow is about $\frac{3}{4}$ of the way across the line so it is 40 000.

Inverse Operations

Use the inverse to check:



To check 53 476 – 32 732 = 20 744 use 32 732 + 20 744 = 53 476

Start with a number, subtract 409 and double. I end with 6264.

To find the starting number use the inverse: halve, then add 409. Half of 6264 = 3132. 3132 + 409 = 3541. The starting number was 3541.

Multistep Problems

Using a Bar Model

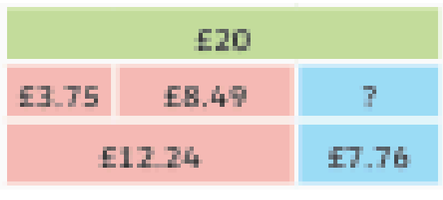
The sum of two numbers is 25 567.

The difference is 1875.

Subtract 1875 from 25 567 = 23 692.

Halve 23 692 to find smaller number = 11 846.

Add 1875 to find larger number = 13 721.



£20 is used to buy 2 books costing £3.75 and £8.49.

How much change is given?

£3.75 + £8.49 = £12.24

£20.00 - £12.24 = £7.76

Science

Lesson Sequence

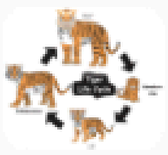
1. Understand the life processes of a plant.

2. Understand the life cycles of mammals.

3. Compare the life cycles of insects and amphibians.

4. Understand the life cycle of birds and reptiles.

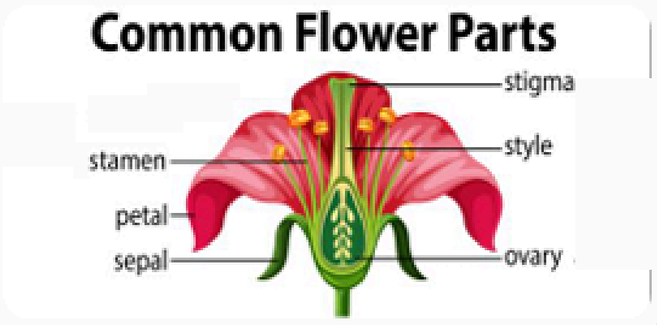
5. Know about the life and work of Jane Goodall and David Attenborough.



6. Research and present the life cycle of a creature.

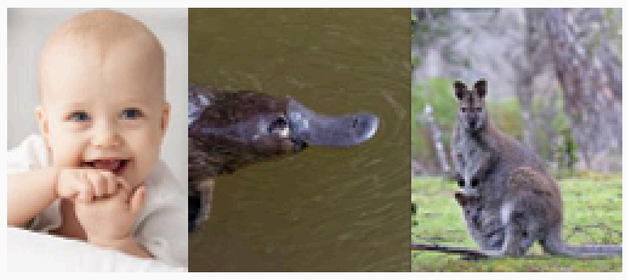
Reproduction in plants

Plants contain both male and female cells. Some need to be pollinated in order to be fertilised. Others use asexual reproduction to reproduce.



Mammals

Mammals reproduce and give birth to live young. They can be either placental, monotreme or marsupial.

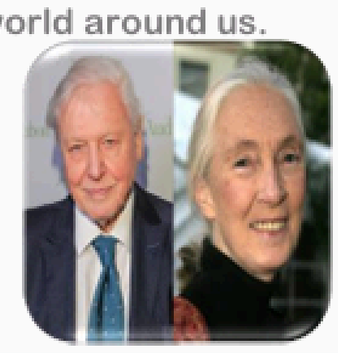


Birds and Reptiles

Most birds and reptiles are born when the mother lays eggs and incubates them until they are ready to hatch. Once the egg is hatched, the baby is looked after by the mother before leaving the nest.

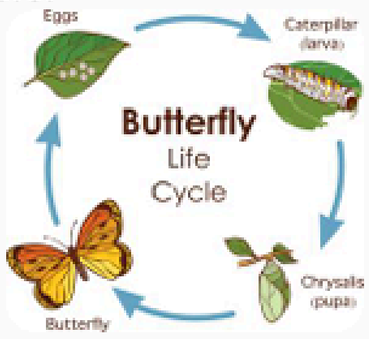
Important People

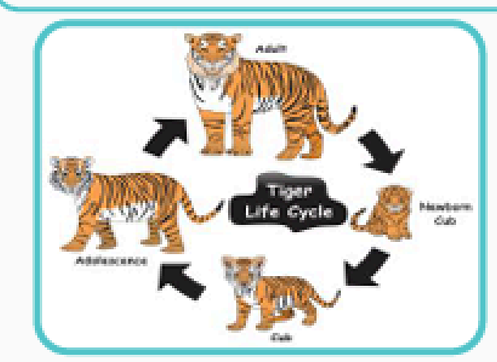
David Attenborough and Jane Goodall study living things. They present the life of animals on earth and have made important documentaries so we can learn about the world around us.



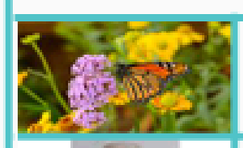
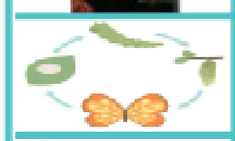
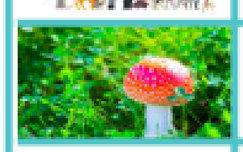
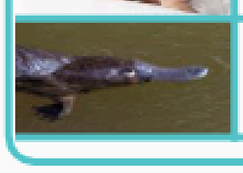
Metamorphosis

Amphibians are a bit different. Many are born live or underwater. They complete a metamorphosis as adults and can live and breathe on land.
Metamorphosis is the change in body form and habits during the life cycle.





Rocket Words

	living organism	something that can move, use energy and reproduce
	naturalist	an expert in the studies of natural history
	primatologist	a person who carries out a scientific study of primates
	metamorphosis	when insects and amphibians transform from larval stage to their adult form
	endangered	an animal is considered endangered when there are very few of them alive
	asexual	where only one parent is needed to create offspring
	reproduction	to make offspring either sexually or asexually
	fertilisation	when a sperm and egg cell join together
	placental mammal	has live young which develop before birth inside a female mammal
	monotreme mammal	a mammal who lays eggs to reproduce

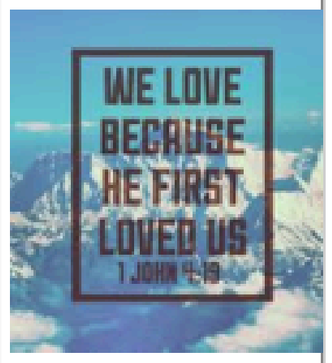
Being a Christian: UKS2 Knowledge Mat (U2.1 Y5)

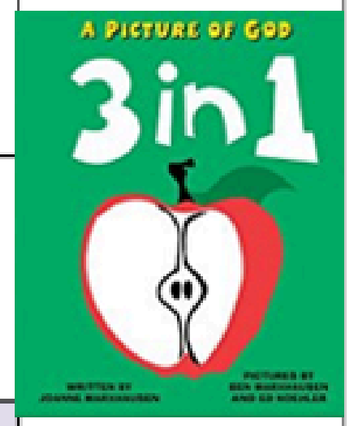
RE

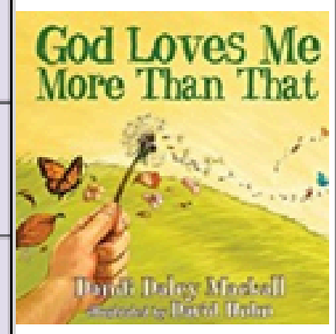
Subject Specific Vocabulary	
God	The creator and ruler of the universe and source of all moral authority; the supreme being.
Christian	A person who believes in Christ and his teachings.
Bible	The Christian holy book containing Christian scriptures, consisting of the Old and New Testaments.
Psalm	A sacred song or hymn, in particular any of those contained in the biblical Book of Psalms and used in Christian and Jewish worship.
Cathedral	The principal church of a diocese, with which the bishop is officially associated.
Divine	Of or like God.
Prophet	A person regarded as an inspired teacher or proclaimer of the will of God

Sticky Knowledge - God: What does it mean for Christians to believe that God is holy and loving?
(links to1.1)

- ❑ Christians believe in one God. .
- ❑ They believe that God is three persons in one: God the Father, Jesus the Son and the Holy Spirit.
- ❑ Christians believe that God is loving, forgiving and holy.
- ❑ There are many Christian worship songs/hymns that emphasise the belief that God is holy and loving.
- ❑ Cathedrals were built by medieval Christians and were dedicated to the glory of God.
- ❑ In Christianity God can be depicted: this is prohibited in the Muslim and Jewish faiths.



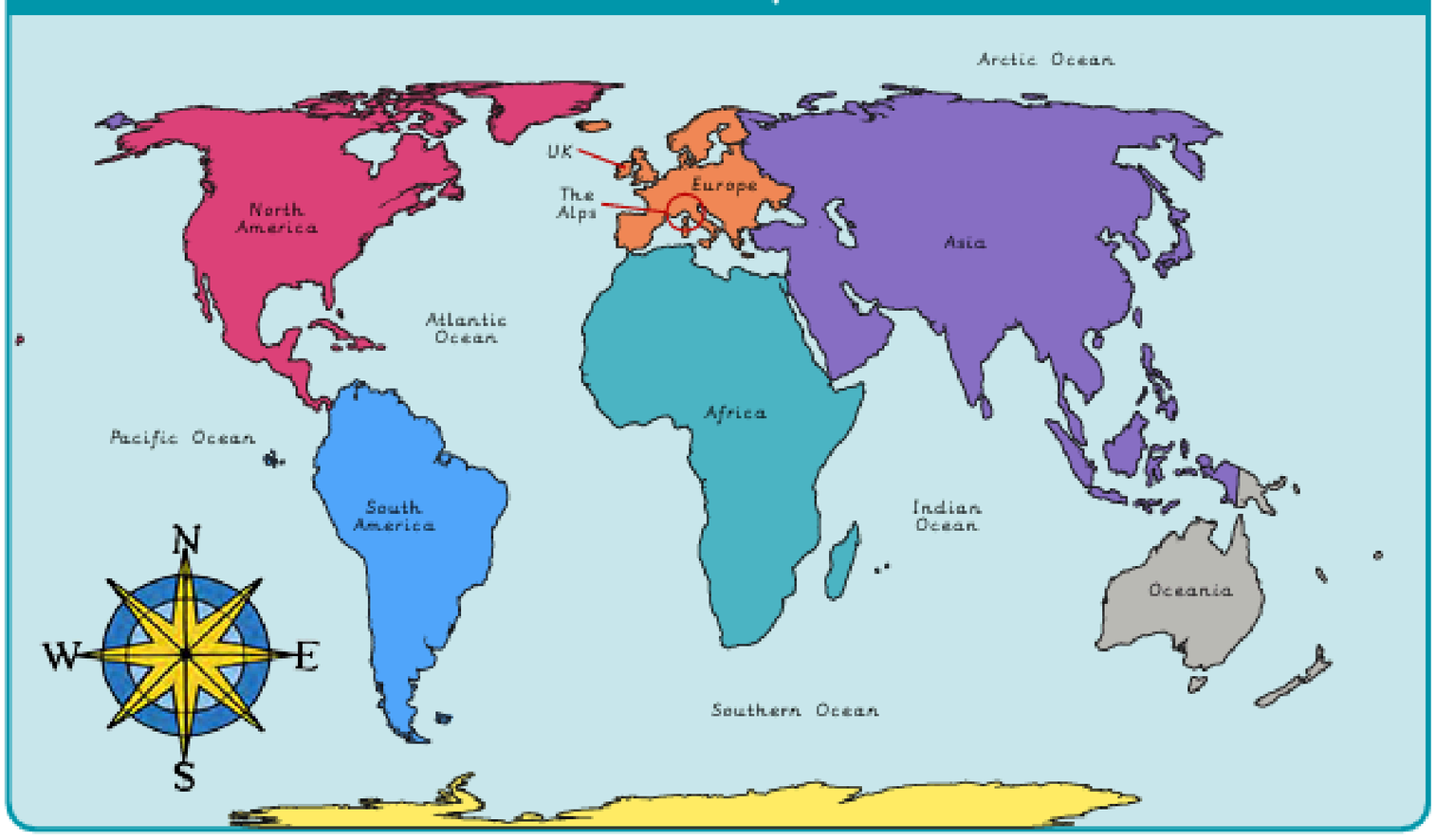




Geography

What is life like in the Alps?

World map



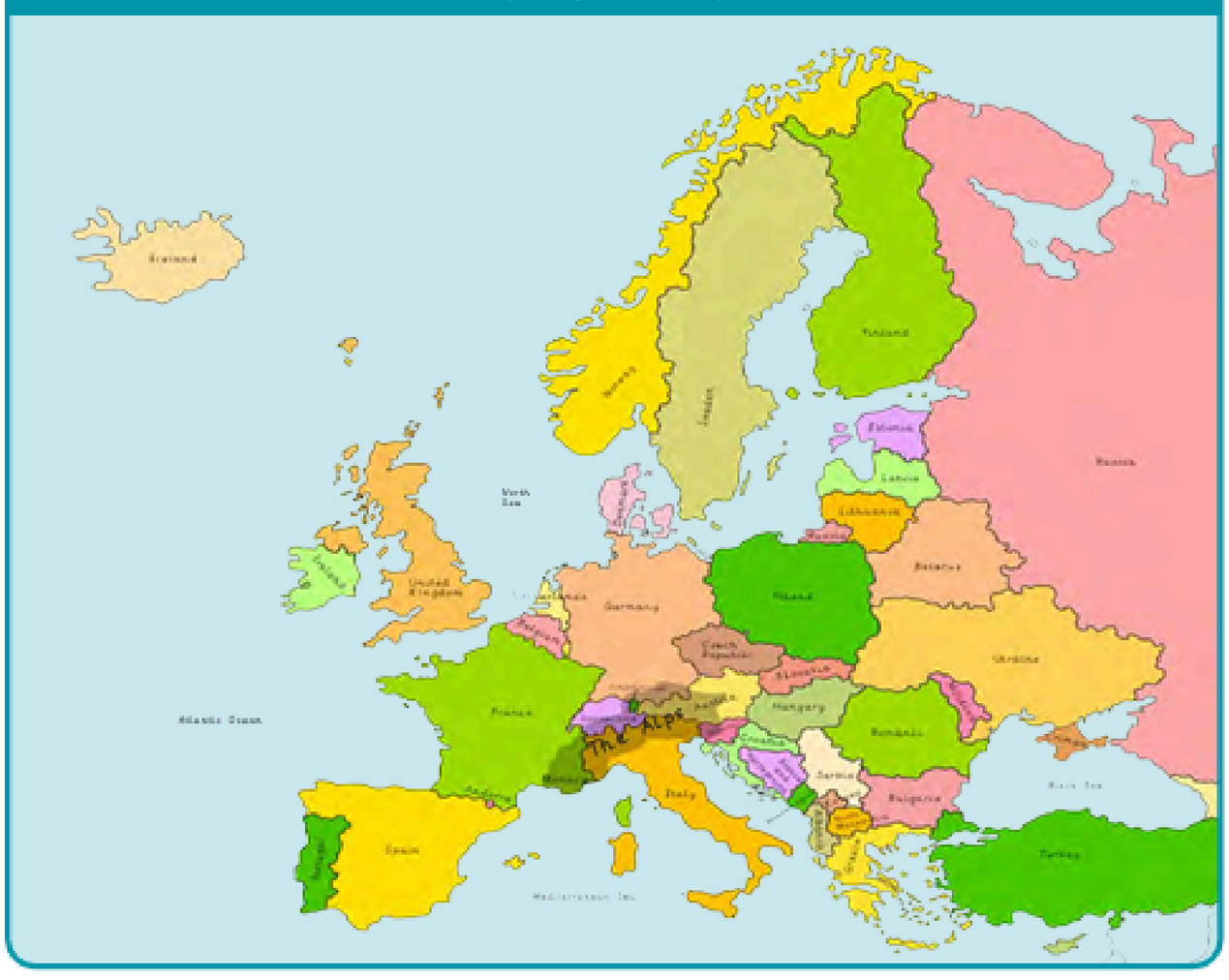
Mont Blanc is the highest mountain in the Alps.

Climate

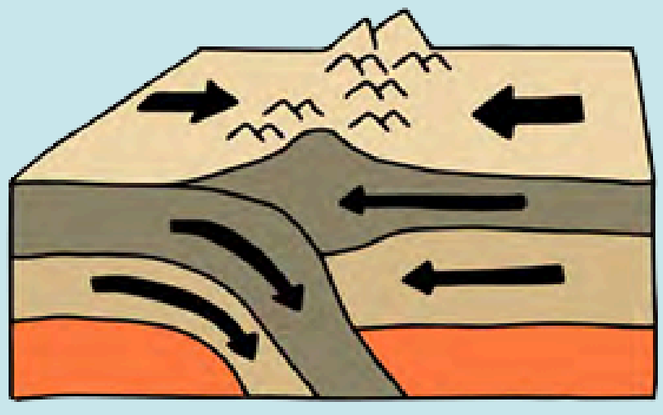
Most of the Alps have a mountain climate. It is much colder than the surrounding climate due to the height of the mountains. Lower regions of the Alps have a temperate climate.

Popular activities in the Alps include skiing, hiking and sightseeing

Map of Europe



leisure	The use of free time for enjoyment.
tourist	A person who travels to a place for pleasure.
tourism	Travel for pleasure in which people visit places of interest.



Alpine mountains are fold mountains. They were formed when two tectonic plates pushed together and the ground was forced upwards.

French

Quel temps fait-il ?

phonics

ch — sound in:
- chaud

ou — sound in:
- l'ouest
- aujourd'hui

oi — sound in:
- froid

silent letters — Sometimes, letters at the end of a word in French are silent, like 'vent', 'chaud', 'froid', 'pleut', and 'nord'.

vocabulary

10 common weather phrases.

Key question:

Quel temps fait-il ?

What's the weather like?

Compass points:

le nord	le sud	l'ouest	l'est
the north	*the south*	*the west*	*the east*

grammar

To understand better the use of the verb 'faire' (to do/make) and 'il y a' (there is/are) in set weather phrases:

Il fait chaud.

It's hot.

Il y a du soleil.

It's sunny.

Both of these phrases translate as "it's..." in English in this context.

What I will learn:

- ☐ Objective 1: I will learn how to ask what the weather is like and respond in French.
- ☐ Objective 2: I will learn how to recognise and recall the conjunctions 'et' *(and)* & 'mais' *(but)*.
- ☐ Objective 3: I will learn how to recognise and recall the 4 core compass points in French.
- ☐ Objective 4: I will learn how to recognise and recall numbers 1-31 in French to say the temperature.
- ☐ Objective 5: I will learn how to recognise and recall the 7 days of the week and the time of day in French.
- ☐ Objective 6: I will learn how to present a weather forecast in French.

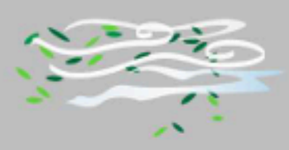
Quel temps fait-il ?

Il fait chaud.

Il fait froid.

Il fait beau.

Il fait mauvais.



Il y a du vent.

Il y a du soleil.

Il y a des orages.

Il y a des nuages.

Il pleut.

Il neige.

dans le nord

dans l'ouest

dans l'est

dans le sud

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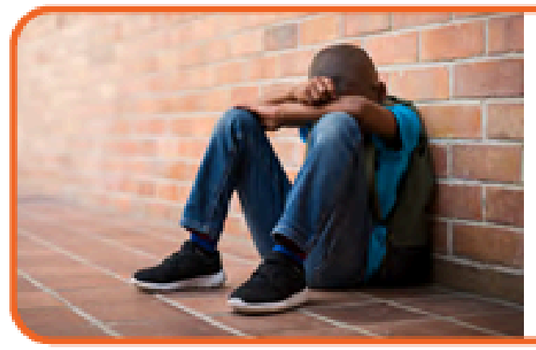
PSHE

Year 6 - Families and relationships

Authority	A person with high status and decision making power.
Conflict	A disagreement or argument.
Earn	To gain something like respect by showing others that you are a good, trustworthy person.
Grief	Feelings of sadness experienced after someone's death.
Grieving	A period of sadness that someone experiences when someone close to them dies.
Resolve	To find a solution to a problem.
Respect	Being thoughtful and polite towards other people.
Stereotype	A view or idea about something, often someone, which is often untrue.



Grief is a process we go through when someone dies (or we no longer see them for another reason).

Grief is different for everyone and we might need support from other people to help us deal with it.

Getting help

Talk to an adult you trust, this could be:
- someone at school e.g. teacher
- someone at home e.g. parent or older siblings
- another relative e.g. grandparent or aunty/uncle
- someone at a club or organisation you attend e.g. sports coach

Contact: Childline
www.childline.org | 0800 1111
Calls DO NOT show on the phone bill

Key facts

Sometimes people might lose your respect but this can be returned if they change their behaviours.

Respect is an important part of relationships and we need to show others respect if we want them to respect us.

Stereotyping can happen when people have limited information about a person or group of people.

Stereotypes can have negative consequences but they can be challenged.

Conflicts can happen between people but there are strategies we can use to overcome these.

Art

Art and design - Drawing

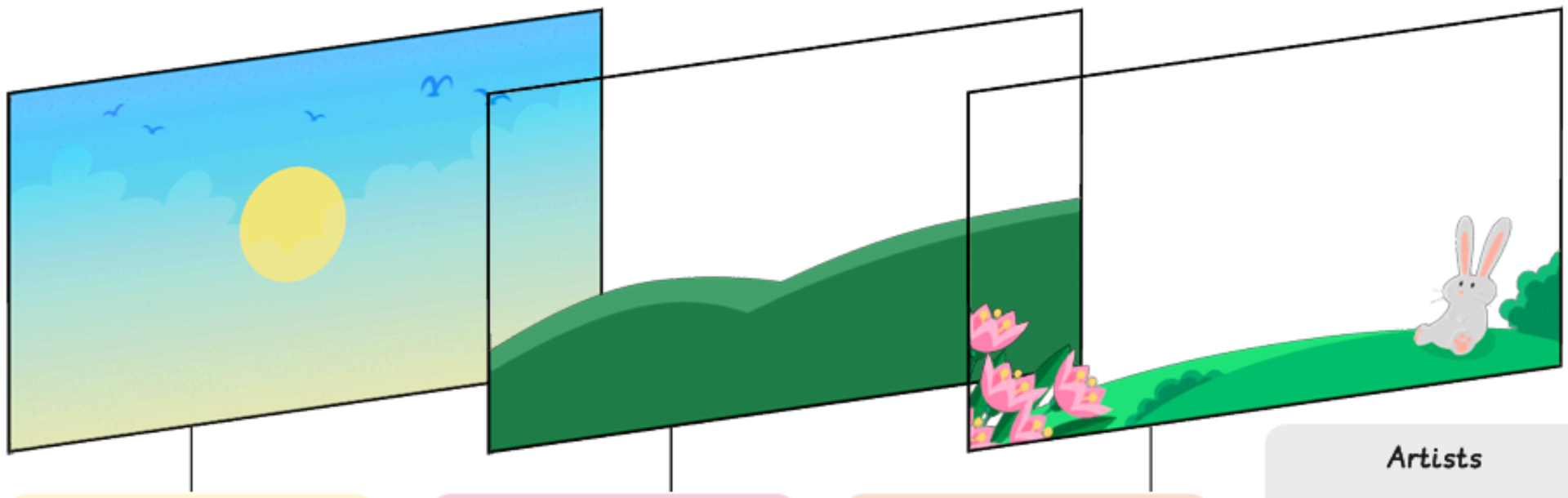
Main subject*

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.

*key vocabulary

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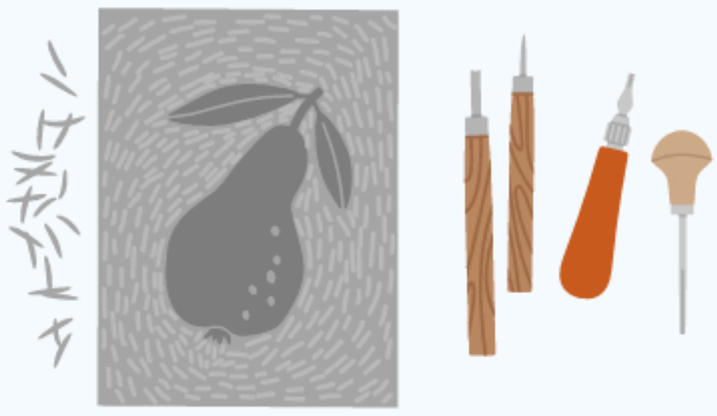
Art and design - Drawing

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.