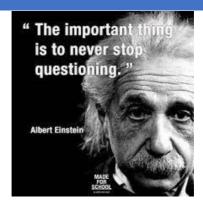


## Belton Church of England Primary School SCIENCE CURRICULUM STATEMENT

Achieving the Best Together I have come that they may have life in all its fullness - John 10:10

#### Curriculum Vision



A Belton scientist can investigate and question the world around them; conducting experiments and recording their findings using appropriate scientific vocabulary. They will develop an awe and wonder about the world they live in which encourages them to question and explore.

#### Intent

At Belton Primary School we aim to develop our pupils as scientists, we want them to enjoy the subject and remember the exciting science in school. We aim to ensure that our pupils recognise the importance of Science in every aspect of their daily lives and understand the range of different career opportunities that use science skills. In an area rich in engineering and scientific industries, we want to make sure our learners are enthused about science and see this as a valuable and exciting career pathway for all. It is crucially important to us that diversity is reflected in our curriculum and that science is seen as a subject open to all and a possible future career that is blind to race, gender and lifestyle. Our Science curriculum will enable our children to increase their knowledge and understanding of our world, developing the skills associated with Science as a process of enquiry and endeavour to provide them with the confidence and motivation to continue to further develop their skills. By developing their natural curiosity, we encourage respect for living organisms and the physical environment and provide opportunities to be reflective and critical of evidence.

## Implementation

Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children are capable of achieving high standards in science. As a school we have decided to adopt Developing Experts, which ensures coverage of the National Curriculum. Our choice of Developing Experts encourages children

to be inquisitive throughout their time at school and beyond. It ensures all children learn and retain knowledge throughout the programme of study and this is revisited at the start of the lesson. In each lesson, pupils are given key facts and knowledge through a storytelling approach to learning. Further to this, each lesson offers Rocket Words, these are key words and meanings to learn; vocabulary which is then repeated throughout the lesson, quizzed on at the end and repeated at the beginning of the following lesson.

All our lessons contain a balance of the different 'Working Scientifically Skills' and 'Scientific Enquiry' types, so that children practise a broad range of skills throughout the curiculum. We promote the importance of an investigative approach through regular 'hands on' experiences. Children work scientifically during lessons and work collaboratively developing skills and investigating different concepts and ideas. This encourages resilience, determination, perseverance, communication, collaboration and questioning. We mix the content knowledge and investigation skills needed to solve Science problems and make decisions and predictions based on what they have learned. Our lessons also allow our pupils to practise their Mathematics and English whilst developing their reasoning and problem-solving skills. By linking Science concepts to everyday life, our pupils can understand the world around them in a scientific way. This will enable pupils to have transferable skills across other subject disciplines, without impacting on the collection of specific scientific knowledge and skills, ensuring that pupils retain knowledge that will readily prepare them for secondary school.

We have developed a two year rolling programme which covers our mixed - age classes.

#### Early Years

Understanding the world involves guiding children to make sense of their physical world and their community. The frequency and range of children's personal experiences increases their knowledge and sense of the world around them – from visiting parks, libraries and local areas to meeting important members of society such as police officers, nurses and firefighters. In addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their understanding of our culturally, socially, technologically and ecologically diverse world. To further support their understanding of the natural world, children follow Developing Experts and use scientific enquiry skills from an early age as a basis for future learning; skills which are further embedded through play with links to all areas of the curriculum. As well as building important knowledge, playing and talking about the world around them extends familiarity with words and enriches and widens children's vocabulary.

## Impact

Children's engagement is seen in their enthusiasm for learning. Children enjoy their learning and this is reflected through pupil interviews. If children are keeping up with their learning then they are deemed at making good or better progress. They take pride in their work and demonstrate good learning behaviours in school. Children understand where their knowledge fits into the outside world and why it is important to learn about all the different areas of the curriculum. They are able to demonstrate knowledge through pupil voice and also across wider subjects. Children are able to articulate themselves using acquired vocabulary from across the curriculum which in turn deepens knowledge and helps spark connections. Children are able to apply their Scientific enquiry skills to solve new problems and explain how and why they solved them through answering questions and fair testing. Children are confident to use a range of methods and equipment to experiment and then communicate results.

Our teaching of Science results in a fun, engaging, high-quality Science education, that provides children with the foundations for understanding the world outside of our village. Through regular assessment at the end of each topic, quizzes and questioning we measure progress. Our engagement with the local environment ensures that children learn through varied and first hand experiences of the world around them. So much of science lends itself to outdoor learning and so we provide children with many opportunities to experience this.

### SEN Statement

What are we aiming for children with SEND to achieve in science?

- Children should have the confidence to develop their own curiosity and ask questions in science. Questions asked are written down and referred back to at the end of topics.
- All children are given the same opportunity to achieve in science.
- We want our children to have the opportunity to explore a range of resources. Through exploration, they can create their own scientific investigations to explore in class.

What amendments are made to the subject in order to help children with SEN to achieve?

- Child friendly knowledge sheets have been made for each unit and these are out on tables in every lesson.

  These sheets are filled with key scientific vocabulary, diagrams and key learning points for the topic.
- Science working walls are used throughout lessons and are regularly updated. The learning walls include key scientific vocabulary, relevant diagrams
- Children work in mixed ability groupings during investigative lessons, with teachers and support staff offering support when needed.
- Role cards are handed out during investigations, such as resource collector and time keeper, to ensure each member of the group has a role to play in the investigation.
- Word banks supported by visuals
- Recapping learning from last time they covered the topic before introducing new learning to consolidate knowledge and correct misconceptions.
- Where possible, we strive to use our fantastic environment to help bring science learning to life. Our forest school are frequently used to aid the learning of our pupils.

#### British Values

Democracy	Rule of Law	Respect and Tolerance	Individual Liberty.
In the Science	In our Science lessons we	When learning and	In Science we learn to
classroom we learn	learn and understand the	investigating during	confidently share our
through our lessons to	importance of	Science lessons we work as	own opinions and ideas
take into consideration	following safety rules	a team, supporting each	and respect the
the views and	when working	other and sharing ideas	opinions of others.

scientifically. opinions of others. and opinions. We discuss Within our lessons pupils are We take turns and Science lessons help our findings and respect encouraged to make their children to understand the each other's work - through own choices when planning instructions from consequences of this we offer support and an investigation and others. their actions, which in advice to others. recognise that others turn helps them to apply may have different points of view. this Through lessons and understanding to their discussion we look at own lives. scientific discoveries which have come from other cultures and how religious beliefs often compete with scientific understanding. We learn to be respectful of these beliefs and to appreciate and understand them.



## Belton Church of England Primary School SCIENCE PROGRESSION STATEMENT

## Substantive Knowledge (Facts)

			Substantive			
			Animals and			
EYFS	Year-I	KSI Year 2	Year 3	LKS2 Year 4	UKS: Year 5	Year 6
PD & H & SC		-	-	-	· Describe the	,
	Identify and name a	<ul> <li>Notice that animals,</li> </ul>	Identify that	· Describe the simple		· Identify and name the
· To eat a healthy	variety of common	including humans,	animals, including	functions of the basic	changes as humans	main parts of the human
range of foodstuffs	animals including	have offspring which	humans, need the	parts of the digestive	develop to old age.	circulatory system, and
and understand a	fish,	grow into adults	right types and	system in humans		describe the functions of the
need for variety in	amphibians, reptiles,	<ul> <li>Find out about and</li> </ul>	amount of nutrition,	<ul> <li>Identify the different</li> </ul>		heart, blood vessels
foodi	birds and mammals	describe the basic	and that they	types of teeth in		and blood
· To show some	<ul> <li>Identify and</li> </ul>	needs of animals,	cannot make their	humans and their		<ul> <li>Recognise the impact</li> </ul>
understanding that	name a variety of	including humans, for	own food; they get	simple functions		of diet, exercise, drugs
$good\ practices\ with$	common animals	survival (water, food	nutrition from what	<ul> <li>Construct and</li> </ul>		and lifestyle on the way
regard to exercise,	that are carnivores,	and air)	they eat · Identify	interpret a variety of		their bodies function
eating, sleeping	herbivores and	· Describe the	that humans and	food chains,		· Describe the ways in
and hygiene can	omniwores	importance for	some other animals	identifying producers,		which nutrients and
contribute to good	<ul> <li>Describe and</li> </ul>	humans of exercise,	have skeletone and	predators and prey,		water are transported
health;	compare the	eating the right	muscles for support,			within animals, including
· To know the	structure of a	amounts of different	protection and			humans,
importance for	variety of common	types of food, and	movement,			
good health of	animals (fish,	hygiene,				
physical	amphibians,					
exercise, and a	reptiles, birds and					
healthy diet, and	mammals, including					
talk about ways to	pets)					
keep healthy and	· Identify, name,					
safe	draw and label the					
-	basic parts of the					
	human body and					
	say which part of					
	the body is					

	associated with					
	each sense					
			Livin	g Things		
UTW · To know		Explore and		Recognise that	Describe the	· Describe how living
about similarities		compare the		living things can be	differences in the life	things are classified into
and differences in		differences		grouped in a variety	cycles of a mammal,	broad groups according to
relation to places,		between things that		ов ихиув	an amphibian, an	common observable
objects, materials		are living, dead,		· Explore and use	insect and a bird	characteristics and
and living things		and things that		classification keys to	· Describe the life	based on similarities and
They talk about		have never been		help group, identify	process of	differences, including
the features of		alive		and name a variety of	reproduction in some	micro-organisms, plants
their own		· Identify that most		living things in their	plants and animals	and animals
immediate		living things live in		local and wider		· Give reasons for
environment and		habitate to which		environment		classifying plants and
how environments		they are suited and		· Recognise that		animals based on
might vary from		describe how		environments can		specific characteristics,
one another,		different habitats		change and that this		
		provide for the		can sometimes pose		
		basic needs of		dangers to living		
		different kinds of		things.		
		animals and plants,				
		and how they				
		depend on each				
		other				
		· Identify and name				
		a variety of plants				
		and animals in their				
		habitats, including				
		micro-habitats				
		· Describe how				
		animals obtain their				
		food from plants				
		and other animals,				
		using the idea of a				
		simple food chain,				
		and identify and				
		name different				
		sources of food				
		**		Plants	•	
UTW	· Identify and name	· Observe and	· Identify and		· Reproduction of plants.	
· To know about	a variety of	describe how	describe the		1 ''	
similarities and	common wild and		functions of			
differences in	garden plants,	seeds and bulbs	different parts of			
relation to places,	including deciduous	grow into mature	flowering plants			
objects, materials	and evergreen	plants · Find out	roots, stem/trunk,			
and living things,	trees,	and describe how	leaves and flowers.			
They talk about the	· Identify and		Explore the			
features of their	describe the basic	plants need water,	requirements of			
own immediate	structure of a	light and a	plants for life and			
environment and	variety of common	suitable	growth (air, light,			
how environments	flowering plants,	temperature to	water; nutrients			
might vary from	including trees,	'	from soil, and room			
one another.	· Observe changes	grow and stay	to grow) and how			
-	across the four	healthy.	they vary from			
	seasons		plant to plant.			
	· Observe and		Investigate the way			
	describe weather		in which water is			
	associated with the		transported within			
	seasons and how		plants			
	day length varies,					
	9 9 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I.	1			

Vocabularys	Plants, leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud	Plants, leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud, light, shade, warm, cool, water, grow, healthy	· Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal,  Photosynthesis, pollen, insect/wind pollination, seed formation, seed dispersal, wind dispersal, wind dispersal, stamen, stigma, carpel, fertilisation, dispersal, pollen, nectar, ovule, ovary, anther, filament		reproduction; asexual; sexual	
			F.1.	0.71.4		
		Linked to Year 2 -	Evolution (Linked to Year 3	& Inheritance	(Linked to year 5	Recognise that living
		Animals and Living	- rocks - fossils)		-	things have changed
		things - offspring,	rods posts)		Living things	over time and that fossils
		habitats)			-	provide information
		, radiation,			reproduction)	about living things that
						inhabited the Earth
			E	<b>ectricity</b>		millions of years ago Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
				· Identify common		Associate the
				appliances that run		brightness of a lamp or
				on electricity		the volume of a buzzer
				<ul> <li>Construct a simple series electrical circuit,</li> </ul>		with the number and
				identifying and		voltage of cells used in the circuit
				naming its basic parts,		Compare and give
				including cells, wires,		reasons for variations in how
				bulbs, switches and		components
				buzzers		function, including the
				· Identify whether or		brightness of bulbs, the
				not a lamp will light in		loudness of buzzers and the
				a simple series circuit,		on/off position of switches
				based on whether or		· Use recognised
				not the lamp is part of		symbols when
				a complete loop with		representing a simple

				a battery  Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit Recognise some common conductors and insulators, and associate metals with being good conductors,		circuit in a diagram.
EAD  • To begin to be interested in and describe the texture of things.  UTW  • To know about similarities and differences in relation to places, objects, materials and liwing things. They talk about the features of their	Distinguish between an object and the material from which it is made • Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock • Describe the simple physical properties of a variety of everyday	· Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses · Find out how the shapes of solid objects made from some materials can be changed by		· Compare and group materials together, according to whether they are solids, liquids or gases · Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) · Identify the part	Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and responses to magnets Some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering,	
own immediate environment and how environments might vary from one another.	materials Compare and group together a variety of everyday materials on the basis of their simple physical properties	squashing, bending, twisting and stretching.		played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperatures	sieving and evaporating  Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic  Demonstrate that dissolving, mixing and changes of state are reversible changes  Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda,	
	(Link to seasonal changes – sur safety – Introduce shadows and the sur being a source of light)		Recognise that they need light in order to see things and that dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sur can be dangerous	Light		Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye  Explain that we see things because light travels from light sources to our eyes or from light

			and that there are			sources to objects and then
			ways to protect			to our eyes
			their eyes			· Use the idea that light
			· Recognise that			travels in straight lines to
			shadows are			explain why shadows
			formed when the			have the same shape as
			light from a light			the objects that cast
			source is blocked by			them,
			a solid object			
			· Find patterns in			
			the way that the			
			size of shadows			
			change			
				Sound		
	(Link to music	(Link to music		· Identify how sounds		
	-pitch/long and	-pitch/long and short		are made, associating		
	short	sounds/dynamics		some of them with		
	sounds/dynamics	and tempo)		something		
	and tempo)			vibrating		
				· Recognise that		
				vibrations from		
				sounds		
				travel through a		
				medium to the ear ·		
				Find patterns		
				between the pitch of		
				a sound and features		
				of the object that		
				produced it		
				· Find patterns		
				1		
				between the volume		
				of a sound and the		
				strength of the		
				vibrations that		
				produced it		
				Recognise that		
				sounds get fainter as		
				the distance from the		
				sound source		
				increases,		
			E-4			
	Link to KSI - Geograp	shup		h & Space	· Describe the movement of the	
	Link to KSI - Geograp Seas/Oceans	shy	(Link to LKS2 - Geog	h & Space graphy - Climate zones,	Describe the movement of the Earth, and other planets relative to	
	Link to KSI - Geograp Seas/Oceans UK	shy		h & Space graphy - Climate zones,	Earth, and other planets, relative to	
	Seas/Oceans UK	l Shy	(Link to LKS2 - Geog topographical feature -	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system	
	Seas/Oceans UK Continents	shy	(Link to LKS2 - Geog topographical feature - Geography	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the	
	Seas/Oceans UK	aprit	(Link to LKS2 - Geog topographical feature -	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth	
	Seas/Oceans UK Continents	aphit.	(Link to LKS2 – Geog topographical feature – Geography – Earth	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth • Describe the Sun, Earth and Moon	
	Seas/Oceans UK Continents	shih	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth • Describe the Sun, Earth and Moon as approximately spherical bodies	
	Seas/Oceans UK Continents	sprit.	(Link to LKS2 - Geographical feature) - Geography - Earth - Climate zones/ topographical	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth • Describe the Sun, Earth and Moon as approximately spherical bodies • Use the idea of the Earth's rotation	
	Seas/Oceans UK Continents	sprît.	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth • Describe the Sun, Earth and Moon as approximately spherical bodies • Use the idea of the Earth's rotation to explain day and right and the	
	Seas/Oceans UK Continents	yry	(Link to LKS2 - Geographical feature) - Geography - Earth - Climate zones/ topographical	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth • Describe the Sun, Earth and Moon as approximately spherical bodies • Use the idea of the Earth's rotation	
	Seas/Oceans UK Continents	yuh	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/ topographical features)	h & Space graphy - Climate zones,	Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and Moon as approximately spherical bodies  Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun	
KUW	Seas/ Oceans UK Continents North/ South Poles Observe changes	shuy	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/ topographical features)	h & Space graphy - Climate zones, es)	Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and Moon as approximately spherical bodies  Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun	
Understand some	Seas/Oceans UK Continents North/South Poles	huy	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/ topographical features)	h & Space graphy - Climate zones, es)	Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and Moon as approximately spherical bodies  Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun	
Understand some important	Seas/ Oceans UK Continents North/ South Poles  Observe changes across the 4 seasons observe	shuy	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/ topographical features)	h & Space graphy - Climate zones, es)	Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and Moon as approximately spherical bodies  Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun	
Understand some	Seas/ Oceans UK Continents North/ South Poles  Observe changes across the 4 seasons observe	huy	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/ topographical features)	h & Space graphy - Climate zones, es)	Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and Moon as approximately spherical bodies  Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun	
Understand some important	Seas/ Oceans UK Continents North/ South Poles  Observe changes across the 4 seasons observe	huy	(Link to LKS2 - Geographical feature - Geography - Earth - Climate zones/ topographical features)	h & Space graphy - Climate zones, es)	Earth, and other planets, relative to the Sun in the solar system  Describe the movement of the Moon relative to the Earth  Describe the Sun, Earth and Moon as approximately spherical bodies  Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun	

d #L-	haa h J					
around them,	know how day					
including the seasons	length varies,					
seasons			M.A. J. J. D by	-1.Cl M.A		
EAD	Dr. Ar I	T   40	Materials/ Properties	and Changing Materials		
EAD	Distinguish	· Identify and		· Compare and	· Compare and group together	
<ul> <li>To begin to be interested in and</li> </ul>	between an object	compare the		group materials	everyday materials on the basis of	
	and the material	suitability of a		together, according	their properties, including	
describe the	from which it is	variety of everyday		to whether they are	their hardness, solubility,	
texture	made	materials, including		solide, liquide or gases	transparency, conductivity	
of things, UTW	· Identify and name	wood, metal,		· Observe that some	(electrical and thermal), and	
	a variety of	plastic, glass, brick,		materials change	response to magnets	
· To know about similarities and	everyday materials,	rock, paper and		state when they are	· Some materials will dissolve in	
	including wood,	cardboard for		heated or cooled,	liquid to form a solution, and	
differences in	plastic, glass, metal,	particular uses		and measure or	describe how to recover a substance	
relation to places,	water, and rock	· Find out how the		research the	from a solution	
objects, materials	· Describe the	shapes of solid		temperature at which	· Use knowledge of solide, liquide	
and living things	simple physical	objects made from		this happens in	and gases to decide how	
They talk about the	properties of a	some materials can		degrees Celsius (°C)	mixtures might be separated,	
features of their own immediate	variety of everyday materials	be changed by		· Identify the part	including through filtering,	
		squashing, bending,		played by	sieving and evaporating	
environment and	· Compare and	twisting and		evaporation and condensation in the	· Give reasons, based on evidence	
how environments	group together a	stretching.			from comparative and fair tests, for	
might vary from one another.	variety of everyday			water cycle and	the particular uses of everyday	
one another,	materials on the			associate the rate of	materials, including metals,	
	basis of their simple			evaporation with	wood and plastic	
	physical properties			temperature;	<ul> <li>Demonstrate that dissolving, mixing and changes of</li> </ul>	
					state are reversible changes	
					letata to be	
					· Explain that some changes result in	
					the formation of new materials, and	
					that this kind of change is	
					not usually reversible, including	
					changes associated with	
					burning and the action of acid on	
					bicarbonate of soda,	
				Rocks I		
			Compare and			
			group together			
			different kinds of			
			rocks on the basis of			
			their appearance			
			and simple physical			
			properties Describe			
			in simple terms how			
			fossils are			
			formed when things			
			that have lived are			
			trapped within rock			
			Recognise that			
			soils are made from			
			rocks and organic			
		l	matter		l	

## Disciplinary Knowledge (Skills)

(5 Types of enquir testing, Research u	=	on over time, Patt	Knowledge (Working ern seeking, Identify	<b>v</b> 0.	grouping, Comparati	ve and fair	
<i>0</i> .	K:	<u> </u>	Lk	(S2	Uk	(S2	
EYFS	Year I	Year 2	Year 3	Year 4	Year 5	Year 6	
			Planning				
Having their own	Ask simple	Ask simple	Ask relevant	Ask relevant	With prompting,	Plan different	
ideas-thinking	questions	questions	questions when	questions	plan different	types	
of when prompted prompted types of scientific							
		Recognise that				enquiries	

ideas; finding ways to solve problems; finding new ways to do things  Making predictions  Planning making decisions about how to solve a	Suggest ways of answering a question	questions can be answered in different ways	With support, set up simple and practical enquiries, comparative and fair tests  Set up comparative tests	Set up simple and practical enquiries, comparative and fair tests.	of scientific enquiries to answer questions  With prompting, recognise and control variables where necessary	to answer questions  Recognise and control variables where necessary
problem						
and reach a goal		(	L Conducting Experime	l ents		
Testing their ideas. Children use everyday language as they explore to talk about size, weight, capacity. They explore characteristics of everyday objects and shapes Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and	Make relevant observations  Conduct simple tests, with support	Observe closely, using simple equipment  Perform simple tests	Make systematic observations, using simple equipment  Use standard units when taking measurements	Make systematic and careful observations using a range of equipment, including technology e.g. thermometers and data loggers  Take accurate measurements using standard units, where appropriate	Select, with prompting, and use appropriate equipment to take readings (including repeat readings)  Take precise measurements using standard units	Take measurements using a range of scientific equipment  Take measurements with increasing accuracy and precision  Take repeat readings when appropriate
function.			Recording Evidenc	<u> </u>		
Developing ideas of grouping, sequencing, cause	With prompting, gather and record	Gather and record data to help answer questions	Record findings in various ways using	Record findings using simple scientific language, drawings and	Begin to record data and results of increasing	Record data and results of increasing complexity using

and effect	data to help		scientific	labelled	complexity	scientific
Children	answer	Begin to use	language	diagrams	using	diagrams
represent	questions	simple	Begin to record		scientific	and labels e.g.
their own ideas	,	scientific	findings using	Record findings	diagrams	classification
thoughts and		language	keys,	using keys, bar	and labels e.g.	keys, tables,
feelings through			bar charts, and	charts, and	classification	scatter
design and			tables	tables	keys,	graphs, bar and
technology, art,					tables, scatter	line
music, dance,			Begin to gather,	Gather, record,	graphs, bar and	graphs.
role			classify and	classify and	line	
play and stories.			present	present	graphs.	
			data in a variety	data in a variety		
			of	of		
			ways to help to	ways to help to		
			answer questions	answer questions		
			Reporting Findings			
Making links and	Begin to	Identify and	With support,	Report on	Begin to report	Report and
noticing patterns	identify and	classify	report	findings	and	present
	classify		on findings from	from enquiries,	present findings	findings from
Speaking: Uses			enquiries,	including oral	from enquiries,	enquiries,
talk			including	and	including	including
to organise,			oral and written	written	conclusions and	conclusions and
sequence and			explanations, of	explanations,	causal	causal
clarify thinking			results and	of results and	relationships	relationships
and			conclusions	conclusions	'	·
ideas					Begin to report	Report and
			With support,	Report on	and	presents
Gives meaning			report	findings	presents findings	findings from
to			on findings from	from enquiries	from enquiries	enquiries in oral
marks they make			enquiries using	using	in oral	and
as			displays or	displays or	and written	written forms
the draw, write			presentations	presentations	forms	such as
and					such as displays	displays and
paint					and	other
					other	presentation
Children can					presentation	
make						Report and
observations					Begin to report	present
about					and	findings from
plants and					present findings	enquiries,
animals					from enquiries,	including
and explain why					including	explanations of,
some things					explanations of,	and
occur					and	degree of, trust
and talk about					degree of, trust	in
changes.					in	results
					results	
		I	edictions and Conclu	anoia		
Checking how	Begin to use	Use their	Begin to identify	Identify	Begin to identify	Identify
well	observations to	observations	differences,	differences,	scientific	scientific
		and	similarities or	similarities or	evidence	

their activities	suggest	ideas to	changes related	changes related	that has been	evidence that
are	answers to	suggest	to	to	used	has
going	questions	answers to	simple scientific	simple scientific	to support or	been used to
		questions	ideas and	ideas and	refute	support or refute
Changing			processes	processes	ideas or	ideas or
strategy					arguments	arguments
as needed			Begin to use	Use results to	Begin to use test	Use test results
Reviewing how			results	draw	results to make	to
well			to draw simple	simple	predictions to	make predictions
the approach			conclusions,	conclusions,	set up	to
worked			make	make predictions	further	set up further
			predictions for	for	comparative	comparative and
Understanding:			new	new values,	and fair tests	fair tests
Listens and			values, suggest	suggest		
responds			improvements,	improvements,		
to ideas			and	and		
expressed			raise further	raise further		
by others			questions	questions		
Children can			Use	Use		
discuss			straightforward	straightforward		
similarities and			scientific	scientific		
differences			evidence	evidence		
between living			to answer	to answer		
things, objects,			questions	questions or to		
and materials.			or to support	support their		
			their	findings		
			findings			

## Vocabulary Progression

EYFS						
My Body	Weather & Seasons	Animals	Food	Plants	Beach	
Arm	Rain	Bird	Cow	Plant	Beach	
Leg	Snow	Cow	Pig	Seed	Sand	
Nose	Winter	Sheep	Chicken	Stem	Bucket	
Mouth	Summer	Goat	Sheep	Water	Spade	
Hand	Spring	pig	Wheat	Root	Dune	
Foot	Autumn	Farm	Milk	Soil	Sea	
Ear	Wind	Chicken	Cheese	Sunlight	Sandcastle	
eye	sun	bear	Eggs	garden	Footprint	

Science Topic	Year 1-2	Year 3-4	Year 5-6
Working scientifically	experience	develop	variables
	observe	enquiry	evidence
	changes	practical enquiry	justify
	patterns	fair test	accuracy
	grouping	comparative test	precision

	sorting	relationships	scatter graphs
	predict	conclusion	bar graphs
	control	accurate	line graphs
	experiment	thermometer	argument (science)
	method	data logger	causal relationship
	classifying	estimate	1
	compare	data	
	identify (name)	diagram	
	data	key (identifying)	
	measure	table	
	record	chart	
		bar chart	
	equipment 		
	questions	results	
	test	predictions	
	investigate	explanation	
	explore	reason	
	magnifying glass / hand lens	similarity	
	same	difference	
	different	question	
		evidence	
		information	
		findings	
		criteria	
		values	
		properties	
		characteristics	
Animals incl humans	names of common animals: fish,	characteristics nutrition	puberty
Animals incl humans	names of common animals: fish, amphibians, reptiles, birds,		'
Animals incl humans	names of common animals: fish, amphibians, reptiles, birds, mammals	nutrition	gestation period
Animals incl humans	amphibians, reptiles, birds,	nutrition diet	'
Animals incl humans	amphibians, reptiles, birds, mammals	nutrition diet skeleton muscles	gestation period circulatory system heart
Animals incl humans	amphibians, reptiles, birds, mammals carnivores	nutrition diet skeleton muscles protection	gestation period circulatory system heart lungs
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores	nutrition diet skeleton muscles	gestation period circulatory system heart
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human	nutrition diet skeleton muscles protection support movement	gestation period circulatory system heart lungs blood vessels blood
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body	nutrition diet skeleton muscles protection support movement bones	gestation period circulatory system heart lungs blood vessels blood lifestyle
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses	nutrition diet skeleton muscles protection support movement bones skull	gestation period circulatory system heart lungs blood vessels blood lifestyle disease
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see	nutrition diet skeleton muscles protection support movement bones skull shell	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear	nutrition diet skeleton muscles protection support movement bones skull shell digestive system	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre-	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre-	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal insect	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal insect minibeast	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human bodiy senses see hear feel smell taste habitat local environment pet wild animal insect minibeast food	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal insect minibeast food eat	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal insect minibeast food eat head	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet
Animals incl humans	amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal insect minibeast food eat	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine	gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet

	arms		
	legs		
	ears		
	eyes		
	nose		
	mouth		
	tongue		
	hands		
	feet		
	fingers		
	toes		
	elbows		
	knees		
	hair		
	teeth		
	grow		
	healthy		
	offspring		
	adults		
	young		
	water		
	air		
	survive		
	exercise		
	hygiene		
	egg		
	chick		
	chicken		
	caterpillar		
	pupa		
	moth		
	butterfly		
	tadpole		
	frog		
	frog spawn		
	lamb		
	sheep		
	calf		
	cow		
	foal		
	horse		
	1 10130		
Plants	plants	functions	
	wild plants	nutrients	
	garden plants	nutrition	
	evergreen trees		
	deciduous trees	air transport (water)	
	common flowering plants	life cycle	
	flowers	pollination	
	vegetables	seed formation	
	leaf/leaves	seed dispersal	

	01	1	
	flower	reproduce	
	blossom	fertiliser	
	petal		
	stem		
	trunk		
	branch		
	root		
	seed		
	bulb		
	bud		
	growth		
	grow		
	habitat		
	local environment		
	leaf fall		
	water		
	light		
	oxygen/carbon dioxide		
	temperature		
	healthy growth		
	survive		
	soil		
	germinate		
	stages of growth		
Living things and their	pond	environment	life cycles
habitats (incl. evolution and	garden	non-flowering plants	reproduction
inheritance)	field	ferns	life processes
	park	mosses	sexual and asexual
	woodland	flowering plants	reproduction (plants)
	sea shore	grasses	root cuttings
	river	vertebrate animals: fish, birds,	classification
		· ·	-
	ocean	mammals, amphibians, reptiles	microorganisms
	forest	invertebrate animals; snails,	organisms
	rainforest	worms, slugs, spiders, insects	evolution
	stones	human impact - litter,	evolve
	rocks	deforestation, population	adaptation
	logs	increase, nature reserves	variation
	leaf litter		inherit
	habitat		inheritance
	micro-habitat		
	living		
	dead		
	not living		
	alive		
	healthy		
	food		
	food chain		
	depend		
	· ·		
	source of food		
	shelter		
	grow		

	growth		
	healthy		
Materials	everyday materials		properties
	wood		hardness
	paper		solubility
	plastic		transparency
	metal		electrical conductivity
	glass		thermal conductivity
	water		magnetism
	rock		dissolve
	brick		solution
	stone		substance
	fabric		separating
	material		mixing
	foil		filtering
	elastic		'
	dough		sieving reversible change
	rubber		-
	card		burning
	card cardboard		rusting reactions
	clay		irreversible change
	object make/made		
	hard/soft		
	shiny/dull		
	stretchy/stiff		
	rough/smooth		
	bendy/not bendy		
	waterproof/not waterproof		
	transparent/opaque		
	absorbent/not absorbent		
	squash		
	twist		
	bend		
	stretch		
Rocks and soils		rock	
		soil	
		fossil	
		organic matter	
		grains	
		crystals	
		sedimentary rock	
States of matter		solid	
		liquid	
		gas	
		temperature	
		heat (heating)	
		cool (cooling)	
		water cycle	
		evaporation	
		condensation	

	tem Mercury, Venus, earth,
Earth and space seasons solar systems seasonal change planets: Mars, Ju	
seasonal change planets: Mars, Ju	
spring Mars, Ju	viercuity, verus, eurau,
	piter, Saturn, Neptune,
	'
autumn	
winter stars	
weather spherical	bodies
sun	
sunshine	
rain	
snow-	
sleet	
ice	
frost	
l fog	
cloud	
hot	
cold	
storm	
sky	
earth	
night	
day	
Electricity electricity voltage	
simple circuit componer	nte.
light bulb symbols	i ws
	aanam.
cell wire circuit dia	agiani
buzzer	
switch	
motor	
battery	
series circuit	
conductor	
insulator	
Forces Move pole gravity	
Movement repel air resista	
Surfaces magnetic water res	sistance
forces friction	
push levers	
pulleys pulleys	
contact	
distance springs	
magnet	
bar magnet	
ring magnet	
horseshoe magnet	
attract	



# Belton Church of England Primary School Science Rolling Programme

## Cycle A

Term	Year I and 2	Year 3 and 4	Year 5 and 6
Autumn 1	Growth	Light	Studying Living Things
	Animals incl Humans		Living things and their habitats
			(5)
	Adelle Davis	Percy Shaw	David Attenborough
	(Biochemist & Nutritionist who linked health and diet)	(Inventor of the cat's eye)	- links to free resources requiring a login
			(Naturalist & TV Presenter)
			Jane Goodall
			(Wildlife Researcher &
			Conservationist who studied
			chimpanzees)

Autumn 2	Exploring everyday materials Everyday materials Chester Greenwood (Inventor of carmuffs)	Animals incl. Humans - yr  3  Skeletons & Food  Marie Curie (Physicist who invented the first mobile scray machine to treat soldiers wounded on the battlefield in	Living Things & their Habitats (6)  Carl Linnaeus (Botanist & Zoologist who developed a taxonomy for classifying organisms)
		WWI)  Adelle Davis (Biochemist & Nutritionist who linked health and diet)	Agnes Arber (Botanist and first women to become a fellow of the Royal Society who studied aquatic flowering plants and monocots, a group of flowering plants)  Beatrix Potter (Mycologist, study of fungs, and Scientific Illustrator)
Spring, I	Plants - Yr I  Look at seasonal change and how this affects plant growth.	Animals incl Humans Digestion	Changes of materials
	Maria Sibylla Merian (German artist, scientific illustrator, and naturalist) Beatrix Potter	William Beaumont (Surgeon who first observed and studied human digestion as it occurs in the stomach)  Washington & Lucius Sheffield (Dentists who invented toothpaste in a tube)	Raquel Prado (Chemist who develops a sustainable fabric that lookslike leather but comes from pineapple leaves that would otherwise be burnt)  Jamie Garcia - links to free resources requiring a login (Chemist who discovered a fully recyclable plastic)
Spring, 2	Exploring everyday materials 2 - 3 Little Pigs Materials	States of Matter	Evolution and Inheritance
	Becky Schroeder - links to free resources requiring a login (Inventor of Glo-sheets which she patented as a 12-year-old)	Joseph Priestley (Clergyman who discovered oxygen at about the same time as Carl Wilhelm Scheele) Carl Wilhelm Scheele	Charles Darwin  - links to free resources requiring a login (Natural Historian who developed the theory of evolution by natural selection)  Alfred Wallace

		(Clumist who discovered oxygen at about the same time as Joseph Priestley)  Daniel Fahrenheit (Physicist who invented the Fahrenheit temperature scale and the thermometer)	(Nutural Neturan who developed the theory of evolution by natural selection)  Emma Dunne (Palaeobiologist who investigates how ancient climate change affected the evolution of different species)  Telma Laurentino (Evolutionary Biologist who measures differences in the colour of lizards that live in white desert sands to find differences in their genes which might have allowed them to survive in such an extreme environment)
Summer 1	Life Cycles Animals incl. humans	Classifying Living Things and Their Habitats - yr 4	Forces
	Dr Kelly Blacklock (Veterinary Surgeon)	Wangari Maathai - search document for information (Bologist & Environmental Activist awarded the 2004 Nobel Peace Prize for her contribution to sustainable development)  Kelsey Archer Barnhill (Deep Sea Ecologist who sends robots to the seafloor to collect samples of different animals to study)	Galileo Galilei  - links to free resources requiring a login (Astronomer, Mathematician & Physicist who was the first person to use the scientific method to test theories about gravity and the Solar System)  Isaac Newton  - links to free resources requiring a login (Mathematician & Physicist who developed theories about gravity)  Brahmagupta  - search document for information (Mathematician & Astronomer who was the first scientist to talk about gravity)
Summer 2	Living Things and Their Habitats	Electricity	Also puberty sessions for yr 5/6 separately - these need to be taught first
			Blood + Transportation Heart Health Animals, including humans
	Prem Singh Gill (Polar Scientist who studies where Antarctic seals live, breed and feed, so we can know more about where they prefer to live)	Thomas Edison (Inventor of the lightbulb and power grid)	William Harvey (Doctor who discovered the nature of blood circulation and the function of the heart as a pump)

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Term	Year I and 2	Year 3 and 4	Year 5 and 6
Autumn 1	About Me Animals incl. Humans	Forces	Properties of materials
	Leonardo Da Vinci (Anatomical drawing, "Vitruvian Man")	William Gilbert (Doctor who developed the theory of magnetism)	Spencer Silver & Arthur Fry (Chemical Engineer & Chemist respectively who invented the post-it note)
		Leonardo Da Vinci - search document for information (First person to plan and comy out tests on friction)	Ruth Benerito (Chemist who developed wrinkle-free cotton fabric)
Autumn 2	Seasonal changes	Plants	Light
	Jim Cantors (Meteorologist and storm tracker)	Jan Ingenhouse (Doctor & Scientist who discovered the process of photosynthesis)  Dr Kelsey Byers (Biologist who studies flower smells and how they attract insects)  Jagadish Chandra Bose - search document for information (Biophysicist who measured plant response to different stimuli)	Euclid - search document for information (Mathematician who predicted that light travels in straight lines and we only see things that light falls on)  Ihn al-Haytham (Alhazen) (Physicist & Mathematician who developed a theory that light travels in a straight line, and proved it by carrying out the first scientific experiment)
Spring, l	About Animals Animals, including humans	Conservation Living Things & Their Habitats	Electricity
	Joan Beauchamp Procter - search document for information (Herpetologist and Curator of Reptiles, London Zoo)	Wangari Maathai - search document for information (Bologist & Environmental	Nikola Tesla - links to free resources requiring a login (Electrical & Mechanical Engineer who developed the AC electrical system and made important

		Activist awarded the 2004	advances in technologies such as x-rays, neon
	T 1 AU	Nobel Peace Prize for her	lights and robotics)
	Tanesha Allen	contribution to sustainable	
	(Zoologist who studies badgers)	development)	Alessandro Volta
		developmenty	
			(Physicist who developed the electric battery)
			Mildred S Dresselhaus
			(Materials Scientist whose research led to the
			development of the rechargeable batteries in all
			modern electronic equipment)
Spring 2	Plants - year 2	Sound	Animale incl Humane - year 5
' "	Plants		
	Plants		
	Need to also teach Year I		
	Identify and describe the basic		
	**		
	structure of common flowering		
	plants, incl. trees.		
1			
	Daniel Solander	Anstotle	Virginia Apgar
	(Botanist who worked with Joseph	(Philosopher-who	(Doctor & Medical
	Banks on Captain Cook's voyage	developed the concept that	Researcher who developed a method of
	around the World)	sound travele through air	evaluating the well-being of new-born
		due to the movement of air	babies)
	Joseph Banks	particles)	
	(Naturalist on Captain Cook's		
	voyage around the World)	Isago Neuton	
	vogage arouse ris violaj		
		- search document for	
	Poppy Okatcha	information	
	(Horticulturalist interested in the	(Mathematician & Physicist	
		who measured the speed of	
	connection between healthy	sound)	
	environments, healthy food, and	soundy	
	healthier-people)		
Summer 1	Uses of Everyday materials	Scientific Enquiry	Space
Juniner I		Scientific English	Space
	- Year 2		
	Look at year Labractives		
1	Look at year I objectives		
1	Distinguish between an object and		
1	the material from which it is		
1	made		
1			
1	Identify and name a variety of		
1	everyday materials incl. rocks,		
1			
1	glass, water, plastic		
1			
1	Charles Macintosh		Nicolaus Copernicus
1			,
	- links to free resources requiring		(Astronomer who developed the theory that the
1	a login (Chemist and inventor of		Survivae at the centre of the Solar
1	waterproof clothing)		System around which the planets orbited)
1	www.proop.com/ug)		
1			Johannes Kepler
	John McAdam		- search document for information
	I	l	- зашел с постина в росси фонтициос

	(Inventor of the modern road surface)  Dr Pearl Agyakwa (Materials scientist who studies why some materials wear out and other don't)		(Mathematician, Astronomer and Astrologer who developed the theory that the planets moved on oval paths around the Sun)  Mae Jemison (Astronaut and first Black woman in space)  Helen Sharman (Astronaut who was the first British citizen to go into space)  Tim Peake (Astronaut who was the first British person to walk in space)
Summer 2	Habitats from around the World Living Things and their Habitats Seasonal changes	Rocks	Looking after the environment
	Prem Singh Gill (Polar Scientist who studies where Antarctic seals live, breed and feed, so we can know more about where they prefer to live)	Florence Bascom (Geologist who studied the origin and formation of mountains)  Anjana Khatwa (Geologist who collects rocks and fossils from thebeach and studies them to learn about the creatures that lived in the sea and on Earth over 150 million years ago)	Liz Bonin - Conservationist and TV Presenter.

Colones Askiriko Ballino Barranon

## Achieving the Best Together

I have come that they may have life in all its fullness – John 10:10