St Michael's C.E Primary School

Science Curriculum 2025-2026

Science is the intellectual and practical activity encompassing the systematic study of the structure and behaviour of the physical and natural world through observation and experiment.

Intent - At St Michael's, Science promotes and implements a range of knowledge, skills and understanding of nature, processes, and methods of scientific enquiry. We challenge all pupils to question their ideas and create a safe and fair environment to encourage this.

A Scientist at St Michaels works accurately and precisely. They are curious and ask questions to explore and test predictions and theories.

Biology - is the Science of life and living organisms.

Chemistry - is a branch of science that studies what everything is made of and how it works.

Physics - is a branch of science that helps is understand how objects, forces and energy all interact.



Spirituality Across the Curriculum

Our definition of spirituality at St Michael's CE Primary School:

To talk about spirituality is to talk about something which is **beyond words**.

Spirituality is linked to big **questions** about the **meaning and purpose of life**; it includes ideas **relating to oneself**, **others**, **the natural world and the transcendent**.

We refer to this as:
The stillness of the mind
The settling of the soul

The uplifting of the spirit

Being at one in the world and finding meaning and purpose in life.

For some, but not all, this will be experienced, expressed or explained through faith or belief.

When discussing this with our pupils, we refer to spirituality as:

The way WOWS, OWS and NOWS shape me into the person that I am and will become.

Spiritual development contains many facets and it is concerned with a number of areas of an individual's life. Therefore, when developing spirituality in pupils and adults, we, in line with our distinctively Christian vision and our school's definition for spirituality, look at four key areas: self, others, transcendence (beyond), and nature.



Spirituality Opportunities

Self

Opportunities

- After experiments, hold discussions about the wonder of scientific discovery. Ask pupils how these experiences make them feel and what questions they have about the world.
- Discuss how our senses help us experience the world and connect with others, fostering gratitude and awareness.
- Opportunity to explore personal faith and how this reflects on their scientific views.
- To love and respect our own bodies and have an understanding of how our bodies are unique.
- Facilitate discussions about the vastness of the universe and what it
 means to be part of something so large. Prompt pupils to think about
 their place in the universe and what they find awe-inspiring about it.
- Discuss the concept of growth and change, relating it to personal experiences. Ask pupils to reflect on their own growth and the changes they have experienced in their lives.
- Encourage pupils to think about their responsibilities towards the environment. Discuss the idea of stewardship and how caring for the Earth can be seen as a spiritual practice.
- Discuss the interconnectedness of body, mind, and spirit. Encourage
 pupils to reflect on what it means to be healthy and how they can care
 for themselves holistically.

Potential Question Prompts

- How does this work?
- Why has this happened?
- How are you unique?
- How can you make a difference in the world?
- How does understanding the human body and mind help you appreciate your own existence?
- How can learning about genetics and heredity influence your sense of identity and purpose?

Others

Opportunities

- To care for habitats to reinforce the understanding of unity and interconnectedness: Children feel part of a larger whole, fostering a sense of belonging and purpose.
- Taking responsibility of the environment is a way of fulfilling our responsibilities towards others and future generations, producing a stillness of the mind.
- To explore significant people and the wows in their field.
- Encourage pupils to reflect on teamwork and collaboration. Discuss the importance of listening to different viewpoints and how working together can lead to better outcomes.
- Facilitate discussions on how science can address social issues and improve lives. Encourage pupils to think about their role in advocating for others and promoting equity.

Potential Question Prompts

- Why should we care for habitats?
- What are the wows and ows in the stories behind the significant people you study?
- How can scientific advancements in medicine and technology improve the well-being of others?
- What role does empathy play in scientific research and healthcare?
- How can understanding ecosystems and biodiversity help us work together to protect our planet?



Transcendence

Opportunities

- Opportunity to explore how living organisms adapt to their ecosystems.
- How each organism plays a role, connecting to the idea of 'being at one
 in the world'.
- Having a sense of how states of matter impact the world around us.
- Opportunity to be grateful for the world around us
- Encourage pupils to reflect on the vastness of the universe and their connection to it. Discuss questions like, "What do you feel when you look at the night sky?" or "How does understanding the universe change your perspective on life?"
- Discuss the themes of transformation and renewal. Ask pupils to reflect on their own experiences of change and growth, and how these experiences connect them to the larger cycle of life.
- Discuss the importance of caring for the Earth and how this reflects a commitment to future generations: Encourage pupils to think about how their actions can lead to positive change in the world.

Potential Question Prompts

- How do living organisms survive?
- How do living organisms adapt to their surroundings?
- I wonder how animals survive?
- What would happen if there was no water to evaporate?
- How do scientific discoveries about the universe expand our understanding of the divine or the transcendent?
- What are the similarities and differences between scientific and spiritual explanations of the origins of life?
- How can studying the vastness of space inspire a sense of wonder and connection to something greater than ourselves?

Nature

Opportunities

- Appreciating the beauty in nature and understand the differences and similarities in plants and eco-systems and how they are interconnected.
- Discuss the idea that all living things are part of a better system and depend on each other fostering a sense of connection to the natural world.
- Appreciating the natural world around us and how the time taken to produce the natural elements of the world.
- Organising trips to learn about ecosystems, observe wildlife, and understand biodiversity. These experiences can inspire a sense of awe and interconnectedness with the natural world.
- Taking time to appreciate the natural world.
- Grow plants under different conditions to study the factors that affect growth, such as light, water, and soil type. Reflect on the miracle of growth and the spiritual lessons of nurturing and patience.
- Keep journals to record observations of seasonal changes in the local environment. Reflect on the spiritual significance of seasons and cycles in nature.

Potential Question Prompts

- What are the differences and similarities in plants and eco-systems?
- How are the living things dependent on each other?
- How does learning about the natural world enhance your appreciation for the environment?
- What spiritual lessons can we draw from the cycles and systems observed in nature?
- How can scientific knowledge about climate change motivate us to take better care of our planet?

St Michael's CE Primary Science Curriculum 2025-2026



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery			 Science, Skills,	L Curriculum, for further detail	6	
Thursday	Science Skills - See Nursery Curriculum for further details					
Reception	Science Skills - See Reception Curriculum for further details					
Year I	Animals Including Humans What body parts make me, me? Key Scientist: Marie Daly	Seasonal Changes How can you identify the different seasons?	Materials Why do we use different materials for different things?	Seasonal Changes How can you identify the different seasons?	Plants and Trees How can you identify different plants and trees?	Animals Including Humans How can you identify and group a variety of common animals? Seasonal Changes
	Neg Swariusa Marve Dung		Key Scientist Albert Einstein			How can you identify the different seasons? Key Scientist: David Attenbourough
Year 2	How are materials	of Materials s chosen in design? i: Marie Curie	How are animals suit	und their Habitat sed to their environment? whee Henry Tumer	Animals including Humans How do the basic needs of animals help them to survive? Key Scientists Jane Goodall	Plants What do plants need to grow?
Year 3	Rocks and Soils What's the difference between rocks and soils? Key Scientist: Anjana Khatwa	Can you describe how objects can be for	d Magnets e affected by contact and non-contact ces? William Gilbert	Plants Why is water an important factor of a plant cycle? Key Scientist George Washington Carver	Light What is the connection between light and shadows and how do they affect each other? Key Scientist: Percy Shaw	Animals Including Humans Why is it important for humans to have a skeletal system? Key Scientist: Adelle Davis
Year 4	Living Things and their Habitats How do environments change and why can this endanger living things? Key Scientist Rachel Carson	Electricity Does everything shiny conduct electricity? Key Scientist: Lewis Latimer	What is sound and	Lund how is it produced? st: Aristotle	States of Matter Can any material be classified as a solid, liquid or gas? Key Scientist: David Farenheit	Animals Including Humans Why are food chains important? Key Scientist: William Beaumont
Year 5	Earth and Space How is the position and movement of the earth responsible for day, night and years? Key Scientist Galleo/Copernicus and Ptolemy Stephen Hawking	Living Things and their Habitats Are all animal life cycles the same? Key Scientisti Jane Goodall	How are objects affected by co	rces ontact and non-contact forces? Isaac Newton	Properties of Materials Do the physical properties of materials determine their uses? Key Scientist: Spencer Silver	Animals Including Humans Why do humans change as they develop to old age? Key Scientist: Virgin Apagar
Уеаг 6	Mae Jamison Light What is the connection between light and shadows and how they affect each other? Key Scientist: Ibn al-Haytham (Alhazen) Ibn Sahl -	Animals including Humans Can each body system work independently from one another? Key Scientisti Daniel Hale William	Does survival of the fittest always m one ar Key Scientist (tance and their Habitat ean the species are competing against nother? Charles Darwin Anning	Living: Things How do we know that life goes through a cycle if we all die in the end? Key Scientist: Carl Linneaus	Electricity Will the components in a circuit always have the same effect? Key Scientist: Mildred Dresselhaus



Early Years Foundation Stage - Educational Programmes

Understanding the World

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 museums 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. As well as building important knowledge, this extends their familiarity with words that support understanding across domains. Enriching and widening children's vocabulary will support later reading comprehension

National Curriculum - Science

Purpose of study

A high-quality science education provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

Aims

The national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them

are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

National Curriculum - Key stage 1

The principal focus of science teaching in key stage I is to enable pupils to experience and observe phenomena, looking more closely at the natural and humanly-constructed world around them. They should be encouraged to be curious and ask questions about what they notice. They should be helped to develop their understanding of scientific ideas by using different types of scientific enquiry to answer their own questions, including observing changes over a period of time, noticing patterns, grouping and classifying things, carrying out simple comparative tests, and finding things out using secondary sources of information. They should begin to use simple scientific language to talk about what they have found out and communicate their ideas to a range of audiences in a variety of ways. Most of the learning about science should be done through the use of first-hand practical experiences, but there should also be some use of appropriate secondary sources, such as books, photographs and videos.

'Working scientifically' is described separately in the programme of study, but must always be taught through and clearly related to the teaching of substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content.

Pupils should read and spell scientific vocabulary at a level consistent with their increasing word reading and spelling knowledge at key stage I.



National Curriculum - Lower Key stage 2 - Year 3 and 4

The principal focus of science teaching in lower key stage 2 is to enable pupils to broaden their scientific view of the world around them. They should do this through exploring, talking about, testing and developing ideas about everyday phenomena and the relationships between living things and familiar environments, and by beginning to develop their ideas about functions, relationships and interactions. They should ask their own questions about what they observe and make some decisions about which types of scientific enquiry are likely to be the best ways of answering them, including observing changes over time, noticing patterns, grouping and classifying things, carrying out simple comparative and fair tests and finding things out using secondary sources of information. They should draw simple conclusions and use some scientific language, first, to talk about and, later, to write about what they have found out.

'Working scientifically' is described separately at the beginning of the programme of study, but must always be taught through and clearly related to substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content.

Pupils should read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge.

National Curriculum - Upper Key stage 2 - Year 5 and 6

The principal focus of science teaching in upper key stage 2 is to enable pupils to develop a deeper understanding of a wide range of scientific ideas. They should do this through exploring and talking about their ideas; asking their own questions about scientific phenomena; and analysing functions, relationships and interactions more systematically. At upper key stage 2, they should encounter more abstract ideas and begin to recognise how these ideas help them to understand and predict how the world operates. They should also begin to recognise that scientific ideas change and develop over time. They should select the most appropriate ways to answer science questions using different types of scientific enquiry, including observing changes over different periods of time, noticing patterns, grouping and classifying things, carrying out comparative and fair tests and finding things out using a wide range of secondary sources of information. Pupils should draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings.

'Working and thinking scientifically' is described separately at the beginning of the programme of study, but must always be taught through and clearly related to substantive science content in the programme of study. Throughout the notes and guidance, examples show how scientific methods and skills might be linked to specific elements of the content.

Pupils should read, spell and pronounce scientific vocabulary correctly.



Milestones for Science

Nursery

Knowledge

- I am beginning to ask questions relating to a theme.
- I am beginning to understand what animals need to survive.
- I can name my body parts.
- I can suggest some ways to look after my body.
- I can understand the key features of a life cycle.
- I am beginning to understand the need to respect and care for living things.
- I can understand the key features of a life cycle.
- I can name the 4 seasons.
- I am beginning to understand what animals need to survive.

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Skille

- I can explore the Nursery environment and resources.
- I can make observations and discuss simple similarities and differences.
- ullet I can work with an adult to conduct simple tests (explore materials, forces I can feel, observations of plants).
- I can work with an adult to record and discuss our findings (e.g., rain catcher).
- I can explore the school grounds and talk about what I find and notice.
- I can discuss observations I have made about seasonal change.
- I can name familiar animals.
- I can show care and concern for the environment.
- I can make observations and discuss similarities and differences between the seasons.
- I can name familiar animals.
- I can show care and concern for the environment.
- I can explore a range of materials and use them for a purpose when creating.
- I can describe a material and how it feels.
- I can explore and talk about different forces that I can feel (transport theme).
- I can explore different sounds using a range of instruments.
- I can identify different sounds.
- ullet I can discuss similarities and differences between the seasons.



Reception

Knowledge

- I know how to care for pets and animals and what animals need to survive.
- I know what plants need to grow.
- I know what clothes we wear in this season.
- I know some similarities and differences between the natural world around them and contrasting
 environments, drawing on their experiences and what has been read in class.
- I understand some important processes and changes in the natural world around them, including
 the seasons and changing states of matter.
- I can understand the life cycle of a butterfly.
- I can understand how winter affects the animals/creatures/plants/trees.

Skilla

- I can explore what has changed since we were last at school.
- I can talk about why things happen and how things work.
- \bullet $\;$ I can make observations of animals and plants and explain why some things occur, and talk about changes.
- I can compare plants that have been observed.
- I can make observations of changes that take place to caterpillars over time.
- I can observe how plants and trees change.
- I can explore how plants and trees look/feel/smell.
- ullet I can work with an adult to record and discuss our findings (e.g., weather chart adding to a pictogram to show weather patterns).
- I can discuss what has changed since we were last at school.
- I can talk about the features of my own immediate environment and how environments might vary from one another.
- I can discuss how plants and trees look/feel/smell
- I can discuss observations I have made about seasonal change.
- I can identify body parts, noticing things that are the same and different compared to peers.
- $\bullet\quad I$ can sequence the growth of a human, knowing about the 5 senses and the body parts that are used.
- I can identify UK nocturnal animals.
- I can observe changes that take place to caterpillars over time.
- I can identify changes to plants and flowers.
- I can compare plants that have been observed.
- I can look closely at similarities, differences, patterns, and change in nature.
- I can use the weather chart daily by adding to a pictogram to show weather patterns.
- I can recognise senses linked to the seasons.
- I can say changes to plants and flowers.
- I can show care and concern for living things and the environment.
- I can explore a range of materials and use them for a purpose when creating.
- I can describe a material and how it feels.
- I can test which materials keep the light out the most
- I can explore different sounds using a range of instruments.
- I can identify different sounds.
- I can discuss similarities and differences between the seasons.



I can spot and name a variety of common animals that are camivores, herbivores and omnivores. I can describe and compare the structure of a variety of common animals. I can name a variety of everyday materials, including deciduous and evergreen trees. I can name and describe the basic structure of a variety of common animals. I can name and rock. I can name and rock wood, plastic glass, metal, water, and rock. I can make groups of materials based on what they are sense. Stills I can explore the world around me and raise my own questions. I can explore the world activities to experience a variety of scientific enquiry and questioning. I can sex people questions and use simple secondary I can ask people questions and use simple secondary I can explore time to describe some overitime. I can sex tell the difference between an object and the material including deciduous and evergreen trees. I can name some common wild and garden plants, including deciduous and evergreen trees. I can name and evergreen trees. I can identify and name a variety of common animals including deciduous and evergreen trees. I can name and evergreen trees. I can name and evergreen trees. I can name and evergreen trees. I can use the basic structure of a variety of common animals including deciduous and evergreen trees. I can name and evergreen trees. I can user the basic structure of a variety of common animals including deciduous and evergreen trees. I can user the basic structure of a variety of common animals including deciduous and evergreen trees. I can user the basic structure of a variety of common animals including deciduous and evergreen trees. I can user the basic structure of a variety of common animals including deciduous and evergreen trees. I	Year I					
Same dispersion of the body is to do with each sense sense of the commandation of the	Animals including Humans - My body	Materials	Plants and Trees	Animals including Humans - Mammals		
Samewaldage I can spot and name a variety of common animals that are common results of common animals that are common results of a variety of common animals that are common animals. The difference between an object and the material from which it is made. I can describe and compare the structure of a variety of common animals. The difference between an object and the material from which it is made. I can name draw and lobel the basic parts of the human body and say which part of the body is to do with each sense. Stills I can name draw and lobel the basic parts of the human body and say which part of the body is to do with each sense everyday materials including bees. Stills I can name draw and lobel the basic parts of the human body and say which part of the body is to do with each sense and encounted that are considered to explore the world around me and raise my own questions. I can use scientific practical activates to experience a variety of exactly common produced activates to experience a variety of exactly compare drapes over time. I can use scientific practical activates to experience and encounted what I have discovered using simple scientific language. I can seem the language of time to describe and compare changes over time. I can use the language of time to describe and compare changes over time. I can name from which it is made. I can name draw and lobel the basic parts of the human body and say which part of the body is to do with each of the materials including bees. I can name draw and lobel the basic parts of a variety of common orimals that are constituted to experience and controls. Stills I can necessity in the difference between an object and the materials including very common over the basic parts of a variety of common orimals that are controls. Stills I can use scientific language of time to describe and compare changes over time. I can use the language of time to describe and compare changes over time. I can record symbol data. I can record symbol data. I can recor	What body parts make me, me?	Why do we use different materials for	How can you identify different plants and	How can you identify and group a variety of		
Tan spot and name a venity of common animals that are common reasonable to a compare the tructure of a variety of common animals. I can describe and compare the structure of a variety of common animals. I can name a variety of everyday materials including decidious and evergreen trees. I can also say which part of the basic parts of the human body and say which part of the body is to do with each sense. Stilla: I can estable to explore the world around me and raise my own questions. I can use scientific practical activities to experience a variety of scientific enquiry and questioning. I can est be larguage over time. I can use scientific language. I can each people questions and use simple scientific language. I can use proceed the number of instances what I have discovered using simple scientific language over time. I can communicate what I have discovered using simple scientific language over time. I can communicate that the material from which it is made or variety of common animals including decidious and evergreen trees. I can use describe the basic shucture of a variety of common animals including light amphibition, replies that are common flowering plants including them to decide the basic shucture of a variety of common animals. I can name a variety of common animals including light amphibition, replies that are common flowering plants including that any language. I can seal to be devicted and strictly and name a variety of common animals. I can can be expected the basic shucture of a variety of common animals. I can can be expected to the watch and prove the variety of common animals. I can can be expected to the watch and some of a variety of common animals. I can can be expected the basic shucture of a variety of common animals. I can can be expected to watch the specific animan and common animals. I can expected the watch are described to compare the world around me and raise my own questions. I can set the language over time. I can set to first from the world prove of the term of a variety of the		different things?	trees?	common animals?		
· I can start to understand the importance of fair testing. Seasonal Changes - How can you identify the different seasons?		Knowledge I can tell the difference between an object and the material from which it is made. I can name a variety of everyday materials including wood, plastic, glass, metal, water, and rock. I can describe some everyday materials. I can make groups of materials based on what they are like. Stills: I can perform simple tests to explore questions. I can use scientific practical activities to experience a variety of scientific enquiry and questioning. I can sort and group simple features of objects and materials, observing changes over time. I can use the language of time to describe and compare changes over time. For example - quicker / slower / earlier / later. I can communicate what I have discovered using simple scientific language. I can record simple data. I can record the number of instances in a simple table. I can predict.	Knowledge I can name some common wild and garden plants, including deciduous and evergreen trees. I can name and describe the basic structure of a variety of common flowering plants, including trees. Skills: I can work scientifically by observing closely to compare and contrast. I can explore the world around me and raise my own questions. I can sort and group simple features of living things; observing changes over time. I can use the language of time to describe and compare changes over time. For example - before / after / next / first / today / yesterday / tomorrow / morning / afternoon / evening. I can ask people questions. I can communicate what I have discovered using simple scientific language. I can record the number of instances in a simple table.	Knowledge · I can identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. · I can identify and name a variety of common animals that are camivores, herbivores and omnivores. Skills: · I can identify and classify into different classification of groups. · I can communicate what I have discovered using simple scientific language. · I can use my observations and ideas to suggest answers to questions. · I can explore my local environment to answer questions about		

- · I can explain changes through autumn, winter, spring and summer. · I can describe the weather in autumn, winter, spring and summer and that the days get longer and shorter.

<u>Skillei</u>

- · I can predict.
- · I can record data.
- · I can conclude an experiment
- \cdot I can start to understand the importance of fair testing.
- \cdot I can observe and communicate the changes in the weather and the seasons.
- · I can create charts and tables to present my findings.
- · I can identify and classify seasons and the weather.
 · I can use scientific practical activities to experience a variety of scientific enquiry and questioning.
 · I can communicate what I have discovered using simple scientific language



			C.E. Primary School		
Year 2					
Properties of Materials How are materials chosen in design?	Living Things and their Habitats How are animals suited to their environment?	Animals including Humans How do the basic needs of animals help them to survive?	Plants What do plants need to grow?		
Knowledge I can say why I would choose a material for a particular job I can explain how objects made from some materials can be changed by squashing and bending. Skills . I can ask questions and know they can be answered in different ways I can watch closely using equipment I can start to understand the importance of fair testing I can perform simple tests I can name and group. I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantities I can use my observations and ideas to suggest answers to questions I can ask people questions and use simple secondary equipment to find answers I can conclude an experiment. I can ask and answer questions about totalling and comparing categorical data.	Knowledge I can explain the differences between things that are living, dead and things that have never been alive. I can explain that most living things live in habitats which suit them and depend on each other. I can name some plants and animals in their habitats including micro-habitats. I can explain how animals get their food from plants and other animals using a simple food chain. Skille I can ask questions and know they can be answered in different ways. I can name and group. I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantities. I can use my observations and ideas to suggest answers to questions.	Knowledge I can explain that animals, including humans, have babies which grow into adults. I can explain the needs of animals, including humans, for survival. I can explain the importance of exercise, eating healthily and keeping clean. Skills I can create tables and charts to display information. I can interpret and construct simple pictograms, tally charts, block diagrams and simple tables. I can name and group. I can ask people questions and use simple secondary equipment to find answers. I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantities.	Knowledge · I can explain how seeds and bulbs grow into plants: · I can describe how plants need water, light and a suitable temperature to grow and stay healthy. Skills - I can use the local environment to observe. - I can make simple predictions: - I can observe and record with some accuracy. I can interpret and construct simple pictograms, tally charts, block diagrams and simple tables. · I can ask questions and know they can be answered in different ways. · I can start to understand the importance of fair testing. I can watch closely using equipment. · I can watch closely using equipment. · I can use scientific practical activities to experience a variety of scientific enquiry and questioning. · I can name and group. I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantities. · I can use my observations and ideas to suggest answers to questions. - I can conclude an experiment.		



				C.E. Primary School
		Year 3		
Rocks and Soils	Forces and Magnets	Animals including Humans	Light	Plants
What is the difference between rocks and soils?	How can objects be affected by contact and	Why is important for humans to have a skeletal	What is the connection between light and	Why is water an important factor of a plant cycle?
	non-contact forces?	system?	shadows and how do they affect each other?	1 8
Knowledge	Knowledge	Knowledge	Knowledge	Knowledge
· I can explain that soils are made from rocks	\cdot I know that things move differently on different		· I know that light is reflected from surfaces.	
and organic matter.	surfaces	\cdot I can explain why humans and some other	\cdot I can explain that I need light in order to see	. I can explain what different parts of flowering
· I can describe simply how fossile are formed	· I know some forces need contact between two objects; but magnetic forces can act at a distance.	animals have skeletons and muscles	things and that dark is the absence of light	plants do:
when things that have lived are trapped within	· I know how magnets attract or repel each other and	\cdot I know that animals, including humans, need	\cdot I can explain that light from the sun can be	\cdot I know the requirements of plants for life and
rock	attract some materials and not others.	the right types and amount of nutrition, and that	dangerous and that there are ways to protect	growth and how they vary from plant to plant.
• I know that rocks can be grouped by their	\cdot $ ilde{ ilde{I}}$ can describe magnets as having two poles.	they cannot make their own food; they get	eyes.	\cdot I know the part that flowers play in the life cycle
physical properties.	-I can name some magnetic materials -I can explain when two magnets will attract and	nutrition from what they eat	· I know how shadows are formed when the	of flowering plants, including pollination, seed
CI II	- 1 can explain when two magnets will altract and when they will repel.		light from a light source is blocked by a solid	formation and seed dispersal
Skills:	- I can group materials based on whether they are	CLU	object	CLI
· I can examine and conduct practical	attracted to a magnet.	Skiller	· I know that there are patterns in the way that	Skilles
experiments on various types of rocks to group them on the basis of their appearance and	G. II	· I can ask questions and use different types of scientific enquiries to answer them.	the size of shadows change.	· I can investigate the way in which water is transported within plants:
simple physical properties	Skills: • I can compare and group some materials on the	I can gather, record, classify and present data	Skills:	-I can ask questions and use different types of
-I can ask questions and use different types of	basis of whether or not they are attracted to a magnet	in a variety of ways to help with answering	· I can ask questions and use different types of	scientific enquiries to answer them.
scientific enquiry to answer them.	· I can predict whether two magnets will attract or	questions.	scientific enquiries to answer them.	· I can set up simple practical enquiries,
· I can set up simple practical enquiries,	repel each other, depending on which poles are facing	· I can record findings using simple scientific	· I can set up simple practical enquiries,	comparative and fair tests.
comparative and fair tests.	-I can summarise my findings and write a conclusion	language, drawings, labelled diagrams, keys, bar	comparative and fair tests.	· I can make observations and take measurements
· I can record findings using simple scientific	using scientific language. -I can ask questions and use different types of	charts, and tables.	· I can make observations and take	using standard units, using a range of equipment,
language; drawings; labelled diagrams; keys; bar	scientific enquiries to answer them.	 I can interpret and present data 	measurements using standard units, using a	including thermometers and data loggers.
charts, and tables.	· I can set up simple practical enquiries, comparative	using bar charts, pictograms and	range of equipment, including thermometers and	\cdot I can gather, record, classify and present data in
-I can summarise my findings and write a	and fair tests.	tables.	data loggers.	a variety of ways to help with answering
conclusion using scientific language	· I can make observations and take measurements using standard units, using a range of equipment,	 I can interpret data presented in 	\cdot I can gather, record, classify and present data	questions.
 I can interpret and present data 	including thermometers and data loggers.	many contexts.	in a variety of ways to help with answering	\cdot I can record findings using simple scientific
using bar charts, pictograms and	· I can gather, record, classify and present data in a	-	questions.	language, drawings, labelled diagrams, keys, bar
tables.	variety of ways to help with answering questions.		 I can interpret and present data 	charts, and tables.
I can interpret data presented in many contexts	I can interpret and present data using bar charts,		using bar charts, pictograms and	I can interpret and present data using
	pictograms and tables. I can interpret data presented in many contexts.		tables.	bar charts, pictograms and tables.
	· I can report on findings from enquiries, including		 I can interpret data presented in 	I can interpret data presented in many
	spoken and written explanations, displays or		many contexts.	contexts
	presentations of results and conclusions			· I can report on findings from enquiries, including spoken and written explanations, displays or
	I can use results to draw simple conclusions, make predictions for new values, suggest improvements and		·I can explain differences, similarities or	presentations of results and conclusions.
	raise further questions.		changes related to simple scientific ideas and	-I can use results to draw simple conclusions,
	·I can explain differences, similarities or changes		processes.	make predictions for new values, suggest
	related to simple scientific ideas and processes.		-I can summarise my findings and write a	improvements and raise further questions.
	· I can use straightforward scientific evidence to		conclusion using scientific language	·I can explain differences, similarities or changes
	answer questions or to support my findings.			related to simple scientific ideas and processes.
				· I can use straightforward scientific evidence to
				answer questions or to support my findings.
1	1	1		I control of the cont



nd States of Matter Animals including Humans how is it produced? Can any material be classified as a solid, liquid or gas? Knowledge Knowledge	
how is it produced? Can any material be classified as a solid, What are food chains importa liquid or gas?	
how is it produced? Can any material be classified as a solid, What are food chains importa liquid or gas?	
liquid or gas?	
	nt?
Knowledge Knowledge	
	
I know which materials are solids liquids or gases including tricky ones like gels foams, mists and pastes. I can explain that some materials change state when they are heated or cooled. I can correctly talk about the part played by evaporation and condensation in the water cycle and understand the link between the rate of evaporation and temperature. Skills: I can investigate materials that change state and and measure or research the temperature at which this happens in degrees Celsius (°C). I can ask questions and use different types of scientific enquiries to answer them: I can set up simple practical enquiries, comparative and paint retets: I can record findings using simple scientific language drawings labelled diagrams keys bar charts and tables: I can report on findings from enquiries, including spoken and witten explanations, displays or presentations of results and conclusions.	v in food prey changes esses ence to
or more than the second of the	pases including tricty ones like gels, foams, mists and passes. I can explain that some materials change state when they are heated or cooled. I can explain that some materials change state when they are heated or cooled. I can explain that some materials change state when they are heated or cooled. I can explain the water cycle and understand the link between the rate of evaporation and temperature. Stills I can investigate materials that change state and and measure or research the temperature at which this happens in degrees Celsius (°C). I can ask questions and use different types of scientific end and measure or research the temperature at which this happens in degrees Celsius (°C). I can set up simple practical enquiries comparative and fair tests. I can set up simple practical enquiries comparative and fair tests. I can set up simple practical enquiries comparative and fair tests. I can set up simple scientific language drawings labelled diagrams keys barcharts and tables. I can interpret and present discrete and continuous data using appropriate graphical methods including spoken and written explanations, cliplays or presentations of results and conclusions. I can vere results to draw simple conclusions, make predictions for new values, suggest improvements and ruse further questions. I can explain differences, similarities or clearly of the distribution of the di



				C.E. Primary School	
Year 5					
Earth and Space	Living Things and their Habitats	Forces	Properties and Changes of Materials	Animals Including Humans	
How is the position and movement of the	Are all animal life cycles the same?	How are objects affected by contact and	Do the physical properties of materials	Why do humans change as they develop to	
Earth responsible for day, night and years?	The and an arrange of section and carrier	non-contact forces?	determine their uses?	old age?	
Knowledge	Knowledge	Knowledge	Knowledge	Knowledge	
			· I can compare and group together everyday		
\cdot I can describe the movement of the Earth, and	· I can describe the differences in the life cycles	\cdot $\mathrm I$ can explain that unsupported objects fall	materials on the basis of their properties,	\cdot I can describe the changes as humans develop to	
other planets, relative to the Sun in the solar	of a mammal, an amphibian, an insect and a	towards the Earth because of the force of	including their hardness, solubility, transparency,	old age	
system.	bird.	gravity acting between the Earth and the falling	conductivity (electrical and thermal), and		
· I can describe the movement of the Moon	• I can describe how some animals and plants	object	response to magnets	<u>Skiller</u>	
relative to the Earth	reproduce.	\cdot I can demonstrate the effects of air resistance,	• I can explain that some materials will dissolve	• I can talk about and present findings from	
· I can describe the Sun, Earth and Moon as	CLI	water resistance and friction, that act between	in liquid to form a solution, and describe how to	enquiries, including conclusions, causal	
approximately spherical bodies	Skills:	moving surfaces.	recover a substance from a solution.	relationships and explanations of how reliable the	
 I can explain day and night, and the apparent movement of the sun across the sky, using the 	I can talk about and present findings from enquiries, including conclusions, causal	· I can show that some mechanisms, including levers, pulleys and gears, allow a smaller force	· I can use knowledge of solids, liquids and gases to decide how mixtures might be	information is: I can identify scientific evidence that has been	
idea of the Earth's rotation.	relationships and explanations of how reliable	to have a greater effect	separated, including by filtering, sieving and	used to support or refute ideas or arguments.	
wed of the Edition Township	the information is:	w have a greater effect	evaporating.	- I can summarise my findings and write a	
Skillez	·I can identify scientific evidence that has been	Skillei	I can give reasons, based on evidence from	conclusion using precise language and comparative	
• I can record data and results of increasing	used to support or refute ideas or arguments.	· I can plan different types of scientific enquiries	comparative and fair tests, for the particular	adjectives.	
complexity, using scientific diagrams and labels,) II 0 0	to answer questions, including recognising and	uses of everyday materials, including metals,	a	
classification keys, tables, scatter graphs, bar		controlling variables where necessary,	wood and plastic		
and line graphs.		\cdot I can take measurements, using a range of	\cdot I can demonstrate that dissolving, mixing and		
- ${ m I}$ can summarise my findings and write a		scientific equipment, with increasing accuracy	changes of state are reversible changes.		
conclusion using precise language and		and precision, taking repeat readings when	\cdot I can explain that some changes result in the		
comparative adjectives		appropriate	formation of new materials, and that this kind of		
I can interpret discrete and continuous data		· I can record data and results of increasing	change is not usually reversible, including		
using appropriate graphical methods, including		complexity, using scientific diagrams and labels,	changes associated with burning and the action		
compound bar charts and time graphs, where more than one set of data is represented		classification keys, tables, scatter graphs, bar and line graphs.	of acid on bicarbonate of soda.		
·I can identify scientific evidence that has been		I can interpret discrete and	Skille:		
used to support or refute ideas or arguments.		continuous data using appropriate	• I can plan different types of scientific enquiries		
		graphical methods, including	to answer questions, including recognising and		
		compound bar charts and time	controlling variables where recessary.		
		graphs, where more than one set of	· I can take measurements, using a range of		
		data is represented.	scientific equipment, with increasing accuracy		
			and precision, taking repeat readings when		
		\cdot I can use test results to make predictions to set	appropriate		
		up further comparative and fair tests.	· I can record data and results of increasing		
			complexity, using scientific diagrams and labels,		
			classification keys, tables, scatter graphs, bar		
			and line graphs: - I can summarise my findings and write a		
			conclusion using precise language and		
			comparative adjectives .		
			I can interpret discrete and continuous data		
			using appropriate graphical methods, including		
			compound bar charts and time graphs, where		
			more than one set of data is represented.		
			• I can use test results to make predictions to set		
			up further comparative and fair tests.		



			St Michael's C.E. Primary School
	Year 6		C.E. Printary School
Evolution and Inheritance Does survival of the fittest always mean the species are competing against one another? Knowledge	Animals Including Humans Can each body system work independently from one another? Knowledge	Living Things and their Habitats How do we know that life goes through a cycle if we all die in the end? Knowledge	Electricity Will the components in a circuit always have the same effect? Knowledge
I can identify and name the main parts of the human circulatory system, and describe the functions of the heart blood vessels and blood. I can recognise the impact of diet, exercise, drugs and lifestyle on the way the body functions. I can describe the ways in which nutrients and water are transported within animals; including humans. Skills I can record complex data and results using scientific diagrams and labels, classification keys tables, scatter graphs, bar and line graphs. I can interpret discrete and continuous data using appropriate graphical methods, including compound bar charts and time graphs where more than one set of data is represented. I can interpret and construct pie charts and line graphs and use these to solve problems. I can report and present findings from enquiries including conclusions, causal relationships and explanations of and degree of trust in results in oral and written forms such as displays and other presentations. I can identify scientific evidence that has been used to support or refute ideas or argument.	I know that light appears to travel in straight lines. I can 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. I can explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. I can explain that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. Skills I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. I can take accurate measurements, using a range of scientific equipment, taking repeat readings when appropriate. I can summarise my findings and write a conclusion using precise language and comparative adjectives. I can record complex data and results using scientific diagrams and labels, classification keys tables, scatter graphs, bar and line graphs. I can interpret discrete and continuous data using appropriate graphical methods, including compound bar charts and time graphs where more than one set of data is represented. I can interpret and construct pie charts and line graphs and use these to solve problems. I can use test results to make predictions to set up further comparative and fair tests.	· I can give reasons for classifying plants and animals based on specific characteristics. · I can describe how plants, animals and micro-organisms are classified into broad groups according to common observable characteristics and based on similarities and differences I understand the work of Carl Linneus Stills · I can record complex data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. · I can report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. • I can interpret discrete and continuous data using appropriate graphical methods, including compound bar charts and time graphs where more than one set of data is represented. • I can interpret and construct pie charts and line graphs and use these to solve problems. • I can identify scientific evidence that has been used to support or refute ideas or argument.	• I can show that the brightness of a lamp or the volume of a buzzer depends on the number and voltage of cells used in the circuit. • I can compare and give reasons for variations in how components function including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. • I can draw a diagram using recognised symbols to represent a simple circuit. **Skills** • I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary. • I can take accurate measurements using a range of scientific equipment, taking repeat readings when appropriate. • I can record complex data and results using scientific diagrams and labels, classification keys, tables, scatter graphs bar and line graphs. • I can interpret discrete and continuous data using appropriate graphical methods, including compound bar charts and time graphs where more than one set of data is represented. • I can interpret and construct pie charts and line graphs and use these to solve problems. • I can use test results to make predictions to set up further comparative and fair tests.
	Does survival of the fittest always mean the species are competing against one another? Knowledge I can identify and name the main parts of the human circulatory system, and describe the functions of the heart blood vessels and blood. I can recognise the impact of diet, exercise, drugs and lifestyle on the way the body functions. I can describe the ways in which nutrients and water are transported within animals, including humans. Skills I can record complex data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. I can interpret discrete and continuous data using appropriate graphical methods, including compound bar charts and time graphs where more than one set of data is represented. I can interpret and construct pie charts and line graphs and use these to solve problems. I can report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations. I can identify scientific evidence that has been	Evolution and Inheritance Does survival of the fittest always mean the species are competing against one another? Knowledge I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. I can recognise the impact of diet exercise, drugs and lifestyle on the way the body functions. I can describe the ways in which nutrents and water are transported within animals, including humans. Skillse I can record complex data and results using scientific diagrams and labels, alcasification keys tables scatter graphs har and line graphs or data is represented. I can interpret discrete and construct pie charts and line graphs and use these to solve problems. I can report and present findings from enquiries including conclusions, causal relationships and explanations of and degree of trust in results in oral and written forms such as displays and other presentations. I can identify scientific evidence that has been used to support or refute ideas or argument. I can interpret and construct pie charts and there presentations. I can identify scientific evidence that has been used to support or refute ideas or argument. I can interpret and construct pie charts and there presentations. I can identify scientific evidence that has been used to support or refute ideas or argument. I can interpret and construct pie charts and line graphs and use these to solve problems. I can identify scientific evidence that has been used to support or refute ideas or argument. I can interpret and construct pie constructive and there graphs and use these to solve problems. I can interpret and construct pie constructive algebrases and line graphs and use these to solve problems. I can interpret and construct pie constructive algebrases and line graphs and use these to solve problems. I can interpret and construct pie constructive algebrase and the presentations. I can interpret and construct pie constructive algebrase and there is the view of the problems.	Evolution and Inheritance Does survival of the fittest always mean the speaces are compating against one another? **Con each body system work independently from one another? **Econ identify and name the many parts of the human creationsy system and describe the functions of the heart blood vessels and blood I can recognise the impact of field exercise drugs and lipidity on the region of field exercise drugs and lipidity on the region of the heart blood vessels and blood I can recognise the impact of field exercise drugs and lipidity on the region of field exercise that we see thin that objects are seen because they give out on reliefs light travels in strught lines to explain that objects are seen because they give out on reliefs light into the eye I can exercise the ways in which nutrients and water or temporal discrete and water nor temporal discrete and continuous data and results using structure I can record complex data and results using structure of the exercise and continuous data using appropriate graphs where more than one set of data is represented I can interpret and construct pie charts and line graphs and use these to solve problems I can record complex data and results using satisfic diagrams and librationalities and line graphs and use these to solve problems I can record complex data and results using presentative algestures I can record complex data and results using satisfic diagrams and substances and line graphs and use the solve problems I can record complex data and results using satisfic diagrams and librations are record complex data and results using satisfic diagrams and librations and explanations of and degree of the solve problems I can record complex data and results using satisfic diagrams and labels classification comparative algebraics I can record complex data and results using satisfic diagrams and labels classification comparative algebraics I can record complex data and results to make a proposal and explanations of and degree of the pro



					C.E. Primary School	
	Knowledge Organiser Progression in Scientific Vocabulary					
Year 1	Animals including Humans Amphibians, birds, fish, mammals, reptiles, identify, sort, group, omnivore, carnivore, herbivore, diet, senses, sight, hearing, touch, taste, smell	Materials Glass, metal, rock, plastic, wood, transparent, opaque, materials, stiff, soft, shiny, rough, bendy, stretchy, absorbent, water, smooth, waterproof, dull, hard,	Plants and Trees. Wild plants, garden plants, weed, deciduous, evergreen, cedar, horse, chestrut, oak, roots, stem, leaves, flowers, petals, fruit, seed, bulb, grow, insects, birds, water, sunlight, petals, soil, plants,	Seasonal Changes Seasons, autumn, winter, spring trees, leaves, temperature, daytir	, summer, weather, daylight, months, hours, nes, colder, warmer, changes.	
Year 2	Animals including Humans Offspring, grow, adults, survival, water, food, air, exercise, hygiene, nutrition, reproduce, egg, chick, chicken, caterpillar, pupa, butterfly, spawn, tadpole, frog, lamb, sheet, baby, toddler, child, teenager, adult.	Properties of Materials Materials, suitability, properties, behaves, purpose, squash, bend, twist, stretch, properties, wood, glass, plastic, metal, paper, cardboard, fabric, rubber, waterproof, transparent, hard, smooth, strong, weak, flexible, hard-wearing, absorbent, opaque,	Plants Germination, water, swells, plant, sprout, shoots, upwards, sunlight, seed dispersal, parent plant, wind, animals, dies, seed, bean, leaves, flowers, fruit, water, germinate, temperature, nutrition.	life processes, dead, never living, sources, is eaten by, habitat, mich	he, sense, grow, babies, waste, energy, living, metal, plastic, rock, food chain, depend, food ohabitat, depend, survive, alive, woodland, sert, ocean, river, mountain, short grass,	
Year 3	Animals Including Humans. Healthy, good condition, physical condition, mental condition, nutrients, substances, living things, alive, healthy, energy, strength, move, grow, saturated fats, fats, unhealthy, healthy, unsaturated fats, vitamins, minerals, carbohydrates, protein, fibre, fats, vitamins, minerals, water, vertebrate, invertebrate, muscles, tendons, joints, bones, movements, protection, support, skeleton, skeletal muscles, contract, relax, endoskeleton, exoskeleton, hydrostatic skeleton, skull, clavicle, ribcage, vertebra column, ulna, radius, scapula, humerus, pelvis, femur, tibia, fibula.	Rocks and Soils Igneous rock, magma, lava, sedimentary rock, layers, sediment, metamorphic rock, pressure, heat, molten, underground, natural, solid, water, wind, permeable, liquid, impermeable, obsidian, chalk, marble, brick, granite, sandstone, quartzite, concrete, basalt, limestone, slate, coade stone, density, fossilisation, palaeontology, fossils, erosion, permeates, erodes, minerals, air, water, organic matter topsoil, subsoil, bedrock	Plants Roots, stem, leaves, flowers, nutrients, petals, stem, pollinators, evaporation liquid, gas, water, transport, evaporates, evaporation, stuck, light, air, grow, fertilisation, stamen, carpel (pistil), sepal, pollination, germination, seed dispersal, anther, filament, stamen, sepal, ovule, ovary, style, stigma, carpel, seed formation, shaking, dropping, carrying, eating, bursting.	Light travel, wave, light source, dark, reflection, process, surface, reflect, bonce, reflective, ray, light rays, beams, mirrors, smooth, shiny, flat, surface, rough, uneven, surface, eye, pupil, retina, shadow, opaque, translucent, transparent, shadow, midday, sunset	Forces and Magnets Forces, friction, surface, layers, pushes, pulls, roughness, surface, grass, gravel, sand, road, motion, movement, magnet, magnetic, magnetic field, poles, repel, attract.	
Year L	Electricity Electricity, generate, produce, renewable, non-renewable, appliances, battery, energy, generate, lightening, static electricity, natural, coal, oil, fossil fuels, soar panels, nuclear energy, plug, circuit, flow, wire, buzzer, bulbs.	States of Matter Solids, liquids, gases, water vapour, evaporates, water vapour, boiling, melting, freezing, temperatures, structure, condense, precipitation, condensation, evaporation, surface, weather.	Sound Vibration, sound wave, volume, amplitude, pitch, low sound, high sound, loud, quiet, lower pitch, higher pitch, high note, low note, ear, particles, distance, soundproof,	Animals including Humans Digest, oesophagus, stomach, small intestine, large intestine, rectum, human teeth, functions, incisors, canine, molar, premolar, mouth, tongue, salivary gland, liver, gall bladder, duodenum,	Living Things and their Habitats Environment, flowering, non-flowering, plants, animals, vertebrate, dangers, fish, amphibians, reptiles, birds, mammals, invertebrates, snails, slugs, worms, spiders, insects, plants, flowering plants, non-flowing plants, mosses, ferns, nature	



					C.E. Primary School
	switches, power supply, positive, negative, insulator, conductor, electric current		absorb sound, vacuum, eardrum, waves, gas particles, solid particles.	pancreas; anus; animal teeth, eating, herbivore, carnivore, omnivore, food chain, flow of energy, producer; prey, predator, primary consumer; secondary, consumer tertiary consumer; tooth decay, sugary food an drink, brushing, fluoride toothpaste, dentist	reserves, ecologically planned parks, garden ponds, population, development, litter, deforestation.
Year 5	Properties and Changes of Materials. Properties, hardness, solubility, transparency, electrical conductor, thermal conductor, response to magnets, dissolve, solution, separate, separating, solids, liquids, gases, evaporating, reversible changes, dissolving, mixing, evaporation, filtering, sieving, melting, irreversible, new material, burning, rusting, magnetism, electricity, chemists, quantitative, measurements, conductivity, insulation, chemical. Properties and Changes of Materials	Forces Pushes, pulls, gravity, mass, earth's gravitational pull, weight, moon, solar system, weight, kilograms, friction, air resistance, water resistance, buoyancy, streamlined, mechanism, upthrust, pulleys, gears, cogs, levers.	Living Things and their Habitats. Asexual reproduction, fertilise, gestation, pregnancy, life cycle, metamorphosis, pollination, reproduction, sexual reproduction, humans, amphibians, butterflies, birds, male and female sex cells, beating heart, sperm, male sex cell, female sex cell, born, fertilise,	Earth and Space Earth, Sun, Moon, planets, star, solar system, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto, dwarf planet, movement, rotate, orbit, axis, celestial body, spherical, sphere, day, night, light, heat, eclipse, satellite, universe, solar, astronomer, Alhazen, Copernicus, shadow clock, sundial.	Animals Including Humans. Human, development, baby, toddler, child, teenager, adult, puberty, gestation, length, mass, grows, grow, growing, human life cycle, changing, conceive, female egg, embryo, growth, nutrients, 9 months, growth, developing,
Year 6	Living Things and their Habitat Characteristics, classify, taxonomist, key, appearances, groups, warm blooded, bacteria, microorganism, microscope, species, reproduce, fertile, mould, yeast, dust mites, plants, phytoplankton, penicillium, virus, food poisoning, Domain: Eukarya, Kingdon: Animalia, Phylum: Chordata, Class: Mammalia, Order: Carnivora, Family; Canidae, Genis: Canis, Species: Lupus.	Light Light source, reflection, incident ray, reflected ray, the law of reflection, light waves, sunlight, light ray, incidence, incident ray, angle of incidence, light travels, vacuum, airless space, eyes, beams of light, refraction, visible spectrum, prism, shadow, transparent, translucent, opaque, light bends, travelling,	Animals including Humans Circulatory system, heart, blood vessels, oxygenated blood, deoxygenated blood, veins, arteries, transporting, oxygen, transferred, capillaries, heart, body, pump, exchange, water, nutrients, carbon dioxide, chambers, drug, alcohol, plasma, red blood cells. White blood cells, platelets, infection, negative effects, water, protein, gases, nutrients, waste products, exercise, muscles, circulation, brain chemicals, bones, illness.	Electricity Circuit, symbol, cell/battery, current, amps, voltage, resistance, electrons, indicator, lamp/bulb, lighting, wire, motor, buzzer, switch open, switch, closed, brighter, louder, components,	Evolution and Inheritance Offspring, inheritance, variations, characteristics, adaptations, habitat, environment, inherited traits, evolution, natural selection, fossil, adaptive traits.