# Science Curriculum





# Science Overview

	Year A	Year B	
	Year 1 Plants (Biology)	Year 1 Animals including	
	Year 1 Seasonal Changes (Physics)	humans (Biology)	
Year 1/2	Year 1 Materials (Chemistry) Year 2 Use of everyday materials (Chemistry)	Year 2 living things and their habitats (Biology)	
	Year 2 Plants (Biology)	Year 2 animals including humans (Biology)	
	Year3 Rocks (Chemistry)	Year 3 and 4 Animals including humans (Biology)	
Year 3/4	Year 4 Living things and their habitats (Biology)	Year 4 States of matter- (Chemistry) Year 3 Plants (Biology)	
Ye	Year 3 Forces and magnets (Physics) Year 4 Electricity (Physics)	Year 3 Light (Physics) Year 4 Sound (Physics)	
	Yr6 Living things and their habitats (Biology)	Year 5 Properties and changes of materials (Chemistry).	
	Year 6 Electricity (Physics)	Yr6 Light (Physics).	
5/6	Year 5 Forces- (Physics)	Year5 Living things and their habitats (Biology).	
Year 5/6		Year5 Animals including humans- (Biology).	5, 100
	Yr6 Animals including humans (Biology)	Yr5 Earth and Space (Physics)	
		Yr6 Evolution and inheritance (Biology)	

# Science Vision Statement

#### <u>Intent</u>

The 2014 National Curriculum for Science aims to ensure that all children:

- 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 skills required to understand the uses and implications of science, today and for the future.

We understand that it is important for lessons to have a skills-based focus, and that the knowledge can be taught through this. At Offord Primary School, we encourage children to be inquisitive throughout their time at the school and beyond.

The Science curriculum fosters a healthy curiosity in children about our universe and promotes respect for the living and non-living things. We believe science encompasses the acquisition of knowledge, concepts, skills and positive attitudes. Throughout the programmes of study, the children will acquire and develop the key knowledge that has been identified within each unit and across each year group, as well as the application of scientific skills. We ensure that the Working Scientifically skills are built-on and developed throughout children's time at the school so that they can apply their knowledge of science when using equipment, conducting experiments and explaining concepts confidently and continue to ask questions and be curious about their surroundings.

#### **Implementation**

Teachers create a positive attitude to science learning within their classrooms and reinforce an expectation that all children can achieve high standards in science. Science will be taught in planned and arranged topic blocks by the class teacher. This is a strategy to enable the achievement of a greater depth of knowledge. Through our planning, we involve problem solving opportunities that allow children to find out for themselves. Children are encouraged to ask their own questions and be given opportunities to use their scientific skills and research to discover the answers. This curiosity is celebrated within the classroom. Planning involves teachers creating engaging lessons, involving a range of resources that aid understanding of conceptual knowledge. Teachers use their understanding of the national curriculum to assess previous and current knowledge to identify those children with gaps in learning and build on what children already know. This is clearly set out in Knowledge Organisers for each unit, that are used by the teachers with the students for regular guizzing and knowledge acquisition. As the children's knowledge and understanding increases, and they become more proficient in selecting, using scientific equipment, collating and interpreting results, they become increasingly confident in their growing ability to come to conclusions based on real evidence. Working Scientifically skills are embedded into lessons to ensure these skills are being developed throughout the children's school career and new vocabulary and challenging concepts are introduced through direct teaching. This is developed through the years, in-keeping with the topics. We ask that at least two full investigations are written up over the course of an academic year to embed the importance of, and understanding of, the whole process. In other lessons the children may be concentrating on a selective part of the investigation process (i.e. considering fairness and

identification of variables as the element they will record). Opportunities to learn and practise specific working scientifically skills and the opportunities for the whole process pieces, needs to be carefully planned across the whole year's units for each year group. Teachers demonstrate how to use scientific equipment, and the various Working Scientifically skills in order to embed scientific understanding.

#### <u>Impact</u>

The successful approach at Offord Primary School results in a fun, engaging, high-quality science education, that provides children with the foundations and knowledge for understanding the world. Our engagement with the local environment ensures that children learn through varied and firsthand experiences of the world around them. From this exposure to a range of different scientists from various backgrounds, all children feel they are scientists and capable of achieving. Children at Offord Primary School enjoy science, and this results in motivated learners with sound scientific understanding.

# KS1 Scientific enquiry

	Observing over time	Pattern seeking	Research	Identifying and classifying	Comparative testing	Fair testing.
			Year 1 units of st			
Animals including humans Everyday materials	How does my height change over the year? What happens to shaving foam over time?	Do you get better at smelling as you get older?		How can we organise all the zoo animals? Which materials are waterproof?	Is our sense of smell better when we can't see? Which materials are the most absorbent?	
Plants	How does a plant change over a week?			How can we sort/ group different leaves?		
Seasonal changes	How does the temperature change throughout the year?	Do bigger trees lose their leaves first in autumn?		How would you group plants/trees based on which season you are most likely to see them?	In which season does it rain the most? In which seasons do we get the most hours of day light?	
			Year 2 units of st	tudv		
Everyday materials	Would a paper boat float forever?		How are plastics made?		Which materials would be the best for the roof of?	
Animals including humans	How do chicks/tadpoles change over time?			What do the young of different animals look like? What features do they share? Identify and group different types of	Do different types of exercise have different effects on my body?	
Living things and their habitats	What conditions do woodlice (insects) prefer to live in?	Which habitat do worms prefer - where can we find the most worms?	How does the habitat of the artic compare to the habitat of the rainforest?	food. How would you group things to show which are living, dead or have never been alive?		
Plants	What happens to my seed after I have planted it? Keep a seed diary and write about the changes observed over the term.	Do bigger seeds grow into bigger plants?	How can we identify the trees that we observed on our tree hunt?		Do cress seeds grow quicker inside or outside? Do bulbs grow quicker than seeds?	

# Lower KS2 Scientific enquiry

	Observing over time	Pattern seeking	Research	Identifying and classifying	Comparative testing	Fair testing.
			Year 3 units of stu			
Animals including humans				How do skeletons of different animals compare?		How does the angle that your elbow is bent effect the circumference of your upper far?
Forces and magnets	If we magnetise a pin, how long does it stay magnetised for?	Does the size and shape of a magnet affect how strong it is?		Which materials are magnetic?	Which magnet is the strongest?	
Plants	What happens to celery when it is left in a glass of coloured water?		What are all the different ways that seeds disperse?		Does the same seed need the same conditions to grow? Compare different seeds to see what conditions seeds need	
Light	When is our classroom the darkest? Is the Sun the same brightness all day?		How does the Sun make light?		to grow. Which materials allow the most light to pass through?	How does the distance between an object and a screen effect the size of the shadow?
Rocks	How does tumbling change a rock over time?		Who was Mary Anning and what did she discover?		Which soil absorbs the most water?	How does adding different amounts of sand to soil affect how quickly water drains through it?
		_	Year 4 units of stu	dy		
States of matter	How does the level of water in a glass change when left on the windowsill?	Is there a pattern in how long it takes different sized ice lollies to melt?	How does the water cycle work in nature?		Do all liquids freeze at the same temperature?	How does the surface area of a container of watrer affect how long it takes to evaporate.
Animals including humans	Water cycle in a bag. How does an egg shell change when it is left in different drinks?		How do dentists fix broken teeth? How does food travel through our digestive systems?	How can we organise our teeth into groups?	What effect does sugar have on the body compared to carbohydrates.	
Living things and their habitats		Where in our school is the most polluted?	Can we find other animals to add complexity to our classification key? Study an environmentalist and their input to the	Can we use the classification keys to identify all animals?		Does the amount of light affect how many woodlice move around?
Sound			scientific community.		Which material is best to use for muffling sound?	How does the length of a guitar string/tuning fork affect the pitch of the sound? How does the volume of a drum change as you move it further away from it
Electricity	How long does a battery light a torch for?			How would you group these electrical devices base on where the electricity comes from?	Which material is the best conductor of electricity?	How does the thickness of a conducting material affect how bright the lamp is?

# Upper KS2 Scientific enquiry

	Observing over time	Pattern seeking	Research	Identifying and	Comparative testing	Fair testing.
			Veen 5 units of stu	classifying		
Animals		Present data about	Year 5 units of stu What impact did the	dy Can you identify all		
including		the height and weight	work of Jane Goodal	the stages in the		
humans		of babies. What	have on our	human life cycle?		
nanjans		patterns are there?	understanding of	numan nje cycler		
		Explain these	animal reproduction?	What is the		
		patterns.	annarreproductions	difference between		
		parterns.		the life cycle of an		
Living things		Can you spot and		insect, mammal and		
and their		explain patterns in		plant?		
habitat <i>s</i>		the graph below about		F		
		the life expectancy of				
		animals?				
Forces		To test the amount of				To test difference
		friction of different				between the weight
		materials.				and mass of objects.
		To investigate the				To test effect of air
		effects of pulleys				resistance on
		levers and gears.				different materials.
Properties	How does a container			Identify the	Which type of sugar	How does the
and changes	of saltwater change			properties of	dissolves the fastest?	temperature of tea
of materials	over time?			materials and why		affect how long it
	11 1			these are appropriate		takes for a sugar
	How does a nail in saltwater change over			for the job they carry out.		cube to dissolve?
	time?			curry our.		
Earth and	How does shadow	Is there a pattern	What unusual objects	Can you observe and		
space.	length change over	between the size of a	did Jocelyn Bell	identify all the phases		
•	the day?	planet and the time it	Burnell discover?	in the cycle of the		
	·	takes to travel around		Moon?		
		the Sun?				
			Year 6 units of stu	dy		
		1		1		
Animals			Research into	Watch a heart	Collect the classes hear	t rates through
including			scientists who have	dissection. Identify	counting their BPM.	-
			scientists who have helped us to	dissection. Identify the parts of the	counting their BPM. Compare these. Why cou	uld they be different.
including			scientists who have helped us to understand the	dissection. Identify the parts of the heart that have been	counting their BPM. Compare these. Why cou Can you draw any conclu	uld they be different. sions e.g.: people
including			scientists who have helped us to understand the impact of lifestyle on	dissection. Identify the parts of the	counting their BPM. Compare these. Why cou	uld they be different. sions e.g.: people
including			scientists who have helped us to understand the impact of lifestyle on the heart for	dissection. Identify the parts of the heart that have been	counting their BPM. Compare these. Why cou Can you draw any conclu	uld they be different. sions e.g.: people
including			scientists who have helped us to understand the impact of lifestyle on the heart for example: Christian	dissection. Identify the parts of the heart that have been	counting their BPM. Compare these. Why cou Can you draw any conclu	uld they be different. sions e.g.: people
including			scientists who have helped us to understand the impact of lifestyle on the heart for example: Christian Barnard or William	dissection. Identify the parts of the heart that have been	counting their BPM. Compare these. Why cou Can you draw any conclu	uld they be different. sions e.g.: people
including humans	Mould arowth in		scientists who have helped us to understand the impact of lifestyle on the heart for example: Christian	dissection, Identify the parts of the heart that have been discussed.	counting their BPM. Compare these. Why con Can you draw any conclu who do more sport have	uld they be different. sions e.g.: people a lower heart rate?
including humans Living things	Mould growth in different		scientists who have helped us to understand the impact of lifestyle on the heart for example: Christian Barnard or William	dissection, Identify the parts of the heart that have been discussed. Throughout the unit	counting their BPM. Compare these. Why cou Can you draw any conclu who do more sport have During the mould invest	uld they be different. sions e.g.: people a lower heart rate? igation children will
including	Mould growth in different environments over a		scientists who have helped us to understand the impact of lifestyle on the heart for example: Christian Barnard or William	dissection, Identify the parts of the heart that have been discussed. Throughout the unit children will classify	counting their BPM. Compare these. Why con Can you draw any conclu who do more sport have During the mould invest change where the bread	uld they be different. sions e.g.: people a lower heart rate? igation children will l goes. They are
including humans Living things and their	different		scientists who have helped us to understand the impact of lifestyle on the heart for example: Christian Barnard or William	dissection, Identify the parts of the heart that have been discussed. Throughout the unit	counting their BPM. Compare these. Why cou Can you draw any conclu who do more sport have During the mould invest	uld they be different. sions e.g.: people a lower heart rate? igation children will l goes. They are
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