

South Failsworth Primary School 'Inspiring and Creating Lifelong Learners'



	Progression of Science Knowledge at South Failsworth Primary School											
	Physics											
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6					
Seasonal	 Develop an understanding of 	 Observe changes across the four seasons. 										
changes	understanding of growth, decay and changes over time. • Look closely at similarities, differences, patterns and change • Make observations of animals and plants and explain why some things occur, and talk about changes. We explore seasonal changes and go on an autumn/ spring walk etc.	Observe and describe weather associated with the seasons and how day length varies.										
	changes and go on an											



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	Physics										
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Light	Talk about some of the things they've observed.			Recognise that they need light in order to see things and that dark is the absence of			 Recognise that light appears to travel in straight lines. 				
	Talk about why things happen and how things			light.			Use the idea that light travels in straight line				
	work.			Notice that light is reflected from			explain that objects a seen because they give				
	We explore the importance of light for			surfaces.			out or reflect light int				
	growth.			Recognise that light from the sun can be dangerous and that			Explain that we see things because light				
	We explore shadows and creating shadow puppets.			there are ways to protect their eyes.			travels from light sou to our eyes or from li sources to objects an				
	Torches are always in the investigation areas			Recognise that shadows are formed			then to our eyes.				
	for the children to explore, as well as other			when the light from a light source is blocked			Use the idea that lift travels in straight line				
	resources to develop their understanding of			by an opaque object. • Find patterns in the			explain why shadows have the same shape the objects that cast				
	light – coloured paddles etc.			way that the size of shadows change.			them.				





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			Phys	sics						
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Forces and	 Talk about some of the things they've observed, 			Compare how things move on different		Explain that unsupported objects fall				
magnets	such as objects. • Talk about why things			surfaces. • Notice that some		towards the Earth because of the force of gravity acting between				
	happen and how things work.			forces need contact between two objects, but magnetic forces		the Earth and the falling object.				
	Know about similarities and differences in relation to			can act at a distance. • Observe how		Identify the effects of air resistance, water resistance and friction				
	objects and materials.			magnets attract or repel each other and attract some materials and not others.		that act between moving surfaces.				
	We always have magnets out in our investigation areas and the children explore these regularly. They enjoy discovering what is and isn't magnetic.			Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.		Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.				
				Describe magnets as having two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.						





Physics Physic										
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Sound	Talk about some of the things they've observed, such as objects.				 Identify how sounds are made, associating some of them with something vibrating. 					
	 Talk about why things happen and how things work. Know about similarities and differences in relation to objects and materials. 				 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 					
	We explore a variety of musical instruments, and experiment with volume, tempo etc.				• Find patterns 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.					





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			Phys	sics						
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Electricity	EYFS Talk about some of the things they've observed, such as objects. Talk about why things happen and how things work. Know about similarities and differences in relation to objects and materials. We explore a variety of electrical toys and equipment from the everyday microwave melting chocolate and the use of the interactive board, iPads and computer. To Beebots, remote control cars and code-apillars. We always have torches	Year 1			Year 4 Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with 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.	Year 5	Year 6 • Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. • 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. • Use recognised symbols when representing a simple circuit in a diagram.			
	in our investigation areas too.				Recognise some common conductors and insulators, and					
					associate metals with being good conductors.					





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	Physics										
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Earth and	Know about similarities and					Describe the movement of the Earth, and other planets,					
space	differences in relation to places, objects, materials and living things.					relative to the Sun in the solar system.					
	cinigs.					Describe the movement of the Moon relative to the					
	Talk about the features of their own immediate					Earth.					
	environment and how environments might vary from one another.					Describe the Sun, Earth and Moon as approximately spherical bodies. Use the idea of the Earth's					
	During our 2 year cycle the children enjoy a					rotation to explain day and night and the apparent					
	space topic where we learn about the 8 main planets.					movement of the sun across the sky.					
	We compare the planets and explore their										
	similarities, differences, distinguishing features etc.										
	We become fact finders and the children quite confidently recall facts										
	about the various planets.										