



## Lower Key Stage 2 Science Coverage Map

Key Stage 2 Science Programme of Study	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<u>Plants</u> Pupils should be taught to identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.					Cycle B Dungeons & Dragons	Cycle B Romans
Pupils should be taught to explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant					Cycle B Dungeons & Dragons	Cycle B Romans
Pupils should be taught to investigate the way in which water is transported within plants.					Cycle B Dungeons & Dragons	Cycle B Romans
Pupils should be taught to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.					Cycle B Dungeons & Dragons	Cycle B Romans
<u>Animals, including humans</u> Pupils should be taught to identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat			Cycle B Bizarre Bodies			Cycle A Greeks
Pupils should be taught to identify that humans and some other animals have skeletons and muscles for support, protection and movement.			Cycle B Bizarre Bodies			Cycle A Greeks
<u>Rocks</u> Pupils should be taught to compare and group together different kinds of rocks on the basis of their appearance and simple physical properties				Cycle B Around the World		
Pupils should be taught to describe in simple terms how fossils are formed when things that have lived are trapped within rock				Cycle B Around the World		
Pupils should be taught to recognise that soils are made from rocks and organic matter.				Cycle B Around the World		
<u>Light</u> Pupils should be taught to recognise that they need light in order to see things and that dark is the absence of light		Cycle A Festival of Lights				
Pupils should be taught to notice that light is reflected from surfaces.		Cycle A As above				
Pupils should be taught to recognise that light from the sun can be dangerous and that there are ways to protect their eyes		Cycle A As above				
Pupils should be taught to recognise that shadows are formed when the light from a light source is blocked by a solid object		Cycle A As above				
Pupils should be taught to find patterns in the way that the size of shadows change.		Cycle A As above				
<u>Forces and magnets</u> Pupils should be taught to compare how things move on different surfaces.	Cycle B S'heroes					
Pupils should be taught to notice that some forces need contact between two objects, but magnetic forces can act at a distance	Cycle B S'heroes					



## Lower Key Stage 2 Science Coverage Map

Pupils should be taught to observe how magnets attract or repel each other and attract some materials and not others	Cycle B S'heroes					
Pupils should be taught to 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	Cycle B S'heroes					
Pupils should be taught to describe magnets as having two poles	Cycle B S'heroes					
Pupils should be taught to predict whether two magnets will attract or repel each other, depending on which poles are facing.	C Cycle B S'heroes					
<u>Animals, including humans</u> Pupils should be taught to describe the simple functions of the basic parts of the digestive system in humans			Cycle B Bizarre Bodies			
Pupils should be taught to identify the different types of teeth in humans and their simple functions			Cycle B Bizarre Bodies			
Pupils should be taught to construct and interpret a variety of food chains, identifying producers, predators and prey			Cycle B Bizarre Bodies			
<u>States of matter</u> Pupils should be taught to compare and group materials together, according to whether they are solids, liquids or gases	Cycle A Egyptians					
Pupils should be taught to 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)	Cycle A Egyptians					
Pupils should be taught to identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	Cycle A Egyptians					
<u>Sound</u> Pupils should be taught to identify how sounds are made, associating some of them with something vibrating			Cycle A Stevie			
Pupils should be taught to recognise that vibrations from sounds travel through a medium to the ear			Cycle A Stevie			
Pupils should be taught to find patterns between the pitch of a sound and features of the object that produced it			Cycle A Stevie			
Pupils should be taught to find patterns between the volume of a sound and the strength of the vibrations that produced it			Cycle A Stevie			
<u>Electricity</u> Pupils should be taught to identify common appliances that run on electricity			Cycle B We are Family			
Pupils should be taught to construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.			Cycle B We are Family			



## Lower Key Stage 2 Science Coverage Map

Pupils should be taught to 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.		Cycle B We are Family				
Pupils should be taught to recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.		Cycle B We are Family				
Pupils should be taught to recognise some common conductors and insulators, and associate metals with being good conductors.		Cycle B We are Family				
<u>Living Things and their habitats</u> Recognise that living things can be grouped in a variety of ways.				Cycle A Savage Stone Age		
Explore and use classification keys to help group, identify, and name a variety of things in their local and wider environment.				Cycle A Savage Stone Age		
Recognise that environments can change and that this can sometimes pose dangers to living things.				Cycle A Savage Stone Age		