Skylark Federation





Barcombe - Hamsey - Plumpton Skylark Federation

Skylark Curriculum- Science KS2

Science coverage: all statutory elements of the National Curriculum are included.

The SC title before each statement indicates the year group to which each specific objective is allocated. All children in, for example, a Year 2/3 class should follow the Y2/3 plan and activities should plan for all the objectives to be taught to all the children. Teachers will need to adapt activities to meet the needs of older or younger children, but the objectives must be taught to all.

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Science Y4, Y5 & Y6				
Year A	Year B	Year C		
	Working Scientifically			
During years 1 and 2, pupils should be taught to use of study content:	the following practical scientific methods, processes a	nd skills through the teaching of the programme		
 asking simple questions and recognising that 	they can be answered in different ways			
 observing closely, using simple equipment 				
performing simple tests				
 identifying and classifying using their observations and ideas to suggest 	answers to questions			
using their observations and ideas to suggest	answers to questions			
gathering and recording data to help in answering qu	estions.			
Living Things and their Habitats	Sound	Living Things and their Habitats		
Sc4/2.1a recognise that living things can be	Sc4/4.1a identify how sounds are made,	Sc4/2.1c recognise that environments can		
grouped in a variety of ways	associating some of them with something vibrating	change and that this can sometimes pose		
Sc4/2.1b explore and use classification keys to	Sc4/4.1b recognise that vibrations from sounds	dangers to living things.		
help group, identify and name a variety of living things in their local and wider environment	travel through a medium to the ear			
Sc6/2.1a describe how living things are classified	Sc4/4.1c find patterns between the pitch of a			
into broad groups according to common observable	sound and features of the object that produced it			
characteristics and based on similarities and	Sc4/4.1d find patterns between the volume of a			
differences, including micro-organisms, plants and	sound and the strength of the vibrations that			
animals	produced it.			
Sc6/2.1b give reasons for classifying plants and animals based on specific characteristics.	Sc4/4.1e recognise that sounds get fainter as the distance from the sound source increases			



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States of Matter	Living Things and their habitats	Animals including humans
Sc4/3.1a compare and group materials together, according to whether they are solids, liquids or gases Sc4/3.1b 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) Sc4/3.1c identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	Sc5/2.1a describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Sc5/2.1b describe the life process of reproduction in some plants and animals.	 Sc4/2.2a describe the simple functions of the basic parts of the digestive system in humans Sc4/2.2b identify the different types of teeth in humans and their simple functions Sc4/2.2c construct and interpret a variety of food chains, identifying producers, predators and prey. Sc5/2.2a describe the changes as humans develop to old age.
Properties and Changes of Materials	Forces	Electricity
Sc5/3.1a compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets Sc5/3.1b know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution Sc5/3.1c use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Sc5/3.1d give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic	Sc5/4.2a explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object Sc5/4.2b identify the effects of air resistance, water resistance and friction, that act between moving surfaces Sc5/4.2c recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect	Sc4/4.2a identify common appliances that run on electricity Sc4/4.2b construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers Sc4/4.2c 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 Sc4/4.2d recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit

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Sc5/3.1e demonstrate that dissolving, mixing and changes of state are reversible changes Sc5/3.1f explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.		Sc4/4.2e recognise some common conductors and insulators, and associate metals with being good conductors.
Earth and Space	Animals including humans	Evolution
Sc5/4.1a describe the movement of the Earth, and other planets, relative to the Sun in the solar system Sc5/4.1b describe the movement of the Moon relative to the Earth Sc5/4.1c describe the Sun, Earth and Moon as approximately spherical bodies Sc5/4.1d use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky.	Sc6/2.2a identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood Sc6/2.2b recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function Sc6/2.2c describe the ways in which nutrients and water are transported within animals, including humans.	 Sc6/2.3a recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago Sc6/3.2b recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents Sc6/2.3c identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
	Light	
	Sc6/4.1a recognise that light appears to travel in straight lines Sc6/4.1b 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 Sc6/4.1c 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 Sc6/4.1d use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them Sc6/4.1a recognise that light appears to travel in straight lines Sc6/4.1b 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 Sc6/4.1c 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 Sc6/4.1d use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them	