



National Curriculum Coverage of Science

Key Stage 1

Year 1										
Unit 1		Unit 2	Unit 3		Unit 4 Unit 5		it 5	Unit 6		
Physics	Chemistry	Physics	Physics	Biology		Biology	Physics	Biology	Biology	
seasons Observe and coassociated with how day length Y1: Uses of Everydate identify and coof a variety of including wood glass, brick, rocardboard for the find out how the objects made to can be change.	describe weather the seasons and havaries. May Materials ompare the suitability everyday materials, d, metal, plastic,	Focus on: Friction Explain that friction is a force that occurs when two objects rub together Wind Understand that wind is a force and what effect it has on things Water Understand that some things float and some things sink	seasons Observe and de associated with how day length Y1: Plants observe and de and bulbs grow find out and des	es across the four escribe weather the seasons and varies. escribe how seeds into mature plants scribe how plants nt and a suitable	•	explore and compare the differences between things that are living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other identify and name a variety of plants and animals in their habitats, including micro-habitats describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.	seasons Observe and d associated with how day length Y1: Animals, Includ notice that anir humans, have into adults find out about a basic needs of	escribe weather the seasons and varies.	 Y1: Animals, Including Humans notice that animals, including humans, have offspring which grow into adults find out about and describe the basic needs of animals, includi humans, for survival (water, for and air) describe the importance for humans of exercise, eating the right amounts of different types food, and hygiene. 	ng od

Year 2								
Unit 1	Unit 2	2 Unit 3		Unit 4	Unit 5		Unit 6	
Physics Chemistry	Physics	Physics	Biology	Biology	Physics	Biology	Biology	
Discrete: Y1: Seasonal Changes Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies. Y2: Everyday Materials distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple physical properties.	Focus on: • Movement Movement (different kinds of movement) • Pushes and Pulls Explain how my body moves Explain that (pushing and pulling) forces help to move our bodies • Gravity Explain that objects fall to the floor because of a force called gravity	seasons Observe and d associated with how day length Y2: Plants identify and nar common wild ar including decide trees identify and des structure of a variance and common are including decided to the structure of a variance and common wild are including decided to the structure of a variance and common wild are including decided to the structure of a variance and common wild are including decided to the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are including the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance and common wild are included the structure of a variance	es across the four escribe weather in the seasons and evaries. The a variety of and garden plants, yous and evergreen	Discrete: Living Things and Their Habitats Focus on: Identifying whether something is a plant or animal? Grouping of animals Naming parts of animals Pond dipping identification Describing different habitats (Mountains, Rivers, Jungles, Sea, Desert, Beach, Forest, Polar and Savannah)	associated with and how day let and how day le	lescribe weather in the seasons ength varies. In Humans in the a variety of eals including fish, eptiles, birds and in the a variety of eals that are	Y2: Animals, Including Humans • identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	

Lower Key Stage 2

	iear 3						
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		
Chemistry	Physics	Physics	Biology	Physics	Biology		
Y3: Rocks compare and group together different kinds of rocks on the basis of their appearance and simple physical properties describe in simple terms how fossils are formed when things that have lived are trapped within rock recognise that soils are made from rocks and organic matter.	Y3: Forces and Magnets compare how things move on different surfaces notice that some forces need contact between two objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some materials and not others 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 describe magnets as having two poles predict whether two magnets will attract or repel each other, depending on which poles are facing.	Y3: Plants Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers 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 Investigate the way in which water is transported within plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	Discrete: Living Things and Their Habitats Focus on: Life Processes (MRSNERG) Grouping plants Grouping animals Grouping fish Grouping birds and reptiles Researching and classifying all animals	Y3: Light recognise that they need light in order to see things and that dark is the absence of light notice that light is reflected from surfaces recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that shadows are formed when the light from a light source is blocked by a solid object find patterns in the way that the size of shadows change.			

Year 4							
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		
Chemistry	Physics	Physics	Biology	Physics	Biology		
 Y4: States of Matter compare and group materials together, according to whether they are solids, liquids or gases 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) identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. 	Discrete: Forces Focus on: Surface Friction and Water Resistance • Forces of different kinds – surface friction and water resistance Forces and Newtons • The ways in which forces can affect movement and how forces can be compared - Newtons (N), force meters	 Y4: Electricity 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 recognise some common conductors and insulators, and associate metals with being good conductors. 	 Y4: Living Things and Their Habitats recognise that living things can be grouped in a variety of ways explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment recognise that environments can change and that this can sometimes pose dangers to living things. 	 Y4: Sound identify how sounds are made, associating some of them with something vibrating 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 that produced it 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 	 Y4: Animals, Including Humans describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey. 		

Upper Key Stage 2

iear 5							
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		
Chemistry	Physics	Biology	Biology	Physics	Biology		
 Y5: Properties and Changes 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 know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic demonstrate that dissolving, mixing and changes of state are reversible changes 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. 	 Y5: Forces explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object identify the effects of air resistance, water resistance and friction, that act between moving surfaces recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 	Discrete: Plants Focus on (areas in red): Y3: explore the part that flowers play in the life cycle of flowering plants, including pollination, fertilisation, seed formation, seed dispersal and germination. Describe conditions which are suitable for germination.	 Y5: Living Things and Their Habitats describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals. 	Y5: Earth and Space describe the movement of the Earth, and other planets, relative to the Sun in the solar system describe the movement of the Moon relative to the Earth describe the Sun, Earth and Moon as approximately spherical bodies use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	Y5: Animals, Including Humans • describe the changes as humans develop to old age.		

rear 6							
Unit 1	Unit 2	Unit 3	Unit 4	Unit 5			
Biology	Physics	Biology	Physics	Biology			
 Y6: Evolution and Inheritance recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. 	 Y6: Electricity 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. 	Y6: Living Things and Their Habitats describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals give reasons for classifying plants and animals based on specific characteristics.	 Y6: Light recognise that light appears to travel in straight lines 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 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 use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. 	 Y6: Animals, Including Humans identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function describe the ways in which nutrients and water are transported within animals, including humans. 			