Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Biology: Plants	Know about similarities and differences in relation to places, objects, materials and living things. Make observations of animals and plants and explain why some things occur and talk about changes.	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants, including trees.	Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Observe and describe how seeds and bulbs grow into mature plants.	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. Investigate the way in which water is transported within plants. 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. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal		Describe the life processes of reproduction in some plants (see Living things and their habitats)	

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Biology: Animals, including humans	Make observations of animals and plants and explain why some things occur and talk about changes.	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). Notice that animals including humans, have offspring which grow into adults. Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	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. Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Construct and interpret a variety of food chains, identifying producers, predators and prey. 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.	Describe the changes as humans develop to old age	Identify the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood Describe the ways in which nutrients and water are transported within animals, including humans. Recognise that living things produce offspring of the same kind, but offspring vary and are not identical

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Biology: Living			Explore and		Recognise that living		Describe the
things and their			compare the		things can be		differences in the
habitats			differences between		grouped in a variety		life cycles of a
			things that are		of ways.		mammal, an
			living, dead, and				amphibian, an insect
			things that have		Explore and use		and a bird
			never been alive.		classification keys to		
					help group, identify		
			Identify that most		and name a variety of		
			living things live in		living things in their		
			habitats to which		local and wider		
			they are suited and		environment.		
			describe how				
			different habitats		Recognise that		
			provide for the basic		environments can		
			needs of different		change and that this		
			kinds of animals and		can sometimes pose		
			plants, and how		dangers to living		
			they depend on		things.		
			each other.				
					Construct and		
			Identify and name a		interpret a variety of		
			variety of plants and		food chains,		
			animals in their		identifying producers,		
			habitats, including		predators and prey.		
			micro-habitats.		(Animals, including		
					humans)		
			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.				

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Biology: 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 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.

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Chemistry:	Know the	Everyday Materials	Uses of Everyday	Rocks	States of Matter	Properties and	
Naterials and	properties of some	Distinguish	Materials	Recognise that soils	Observe that some	changes of materials	
tates of Matter	materials and can	between an object	Identify and	are made from rock	materials change	Give reasons, based	
	suggest some of	and the material	compare the	and organic matter.	state when they are	on evidence from	
	the purposes they	from which it is	suitability of a		heated or cooled, and	comparative and fair	
	are used for.	made.	variety of everyday	Describe in simple	measure or research	tests, for the	
			materials including	terms how fossils are	the temperature at	particular uses of	
	Know that the	Identify and name a	wood, plastic, glass,	formed when things	which this happens in	everyday materials,	
	environment and	variety of everyday	metal, water, and	that have lived are	degrees Celsius.	including metals,	
	living things are	materials, including	rock, paper and	trapped within rock.		woods and plastic.	
	influenced by	wood, plastic, glass,	cardboard for		Identify the part		
	human activity e.g.	metal, water, and	particular uses.	Compare and group	played by	Know that some	
	impact of waste.	rock.		together different	evaporation and	materials will dissolve	
			Find out how the	kinds of rocks on the	condensation in the	in liquid to form a	
		Describe the simple	shapes of solid	basis of their	water cycle and	solution, and describe	
		physical properties	objects made from	appearance and	associate the rate of	how to recover a	
		of a variety of	some materials can	simple physical	evaporation with	substance from a	
		everyday materials.	be changed by	properties.	temperature.	solution.	
			squashing, bending,				
		Compare and group	twisting and		Compare and group	Use knowledge of	
		together a variety	stretching		materials together,	solids, liquids and	
		of everyday			according to whether	gases to decide how	
		materials on the			they are solids,	mixtures might be	
		basis of their			liquids or gases.	separated, including	
		simple physical				through filtering,	
		properties.				sieving and	
						evaporating.	
						Danie and and a thirt	
						Demonstrate that	
						dissolving, mixing and	
						changes of state are	
						reversible changes.	
						Explain that some	
						changes result in the	
						formation of new	
						material, and that this	

Cont'd			kind of change is not usually reversible, including changes associated with burning and Year 5
Chemistry: Materials and States of Matter			the action of acid on bicarbonate of soda.
			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.

Topic		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Physics: Earth and Space	Talk about the features of their own immediate environment and how environments might vary from one another. Begin to understand significance and difference between seasons and months.	Seasonal Changes Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies.				Earth and Space Describe the movement of the Earth and other planets, relative to the Sun in the solar system. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. Describe the movement of the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies.	.00.0

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Physics: Motion and Forces			Uses of Everyday Materials Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching (see Uses of Everyday Materials)	Forces (and Magnets) Compare how different things move on different surfaces. Notice that some forces need contact between two objects, but magnetic forces can act at a distance. (see Magnetism)		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 gears, pulleys, levers and springs, allow a smaller force to have a greater effect.	

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Physics:				Notice that some			
Magnetism				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 ad group			
				Compare ad group together a variety of			
				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.			

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Physics: Electricity					Identify common		Use recognised
					appliances that run		symbols when
					on electricity.		representing a
							simple circuit in a
					Construct a simple		diagram.
					series electrical		
					circuit, identifying		Associate the
					and naming its basic		brightness of a lamp
					parts, including cells,		or the volume of a
					wires, bulbs, switches		buzzer with the
					and buzzers.		number and voltage
							of cells used in the
					Identify whether or		circuit.
					not a lamp will light		
					in a simple series		Compare and give
					circuit, based on		reasons for
					whether or not the		variations in how
					lamp is part of a		components
					complete loop with a		function, including
					battery.		the brightness of
							bulbs, the loudness
					Recognise that a		of buzzers and the
					switch opens and		on/off position of
					closes a circuit and		switches.
					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.		

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Physics: Light				Recognise that they			Recognise that light
				need light in order to			appears to travel in
				see things and that			straight lines.
				darkness is the			
				absence of light.			Use the idea that
							light travels in
				Notice that light is			straight lines to
				reflected from			explain that objects
				surfaces.			are seen because
							they give out or
				Recognise that light			reflect light into the
				from the sun can be			eye.
				dangerous and that			
				there are ways to			Explain that we see
				protect their eyes.			things because light
							travels from light
				Recognise that			sources to our eyes
				shadows are formed			or from light sources
				when the light from a			to objects and then
				light source is			to our eyes.
				blocked by an			
				opaque object.			Use the idea that
							light travels in
				Find patterns in the			straight lines to
				way that the size of			explain why
				shadows change.			shadows have the
							same shape as the
							objects that cast
							them.

Topic	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Physics: 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		
					produce 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		