#### **Breadth**

	Key Stage 1	Key Stage 2
Working Scientifically	Pupils use practical scientific methods, processes and	skills as detailed in the relevant milestone.
Biology	<ul> <li>Plants</li> <li>Identify, classify and describe their basic structure.</li> <li>Observe and describe growth and conditions for growth.</li> <li>Habitats</li> <li>Look at the suitability of environments and at food chains.</li> <li>Animals and humans</li> <li>Identify, classify and observe.</li> <li>Look at growth, basic needs, exercise, food and hygiene.</li> <li>All living things</li> <li>Investigate differences.</li> </ul>	<ul> <li>Plants</li> <li>Look at the function of parts of flowering plants, requirements of growth, water transportation in plants, life cycles and seed dispersal. Evolution and inheritance</li> <li>Look at resemblance in offspring.</li> <li>Look at changes in animals over time.</li> <li>Look at adaptation to environments.</li> <li>Look at differences in offspring.</li> <li>Look at adaptation and evolution.</li> <li>Look at changes to the human skeleton over time. Animals and humans</li> <li>Look at nutrition, transportation of water and nutrients in the body, and the muscle and skeleton system of humans and animals.</li> <li>Look at the digestive system in humans.</li> <li>Look at teeth.</li> <li>Look at the human circulatory system.</li> <li>All living things</li> <li>Identify and name plants and animals</li> <li>Look at classification keys.</li> <li>Look at classification of plants, animals and microorganisms.</li> <li>Look at reproduction in plants and animals, and human growth and changes.</li> <li>Look at the effect of diet, exercise and drugs.</li> </ul>

#### Breadth

	Key Stage 1	Key Stage 2
Chemistry	<ul> <li>Materials</li> <li>Identify, name, describe, classify, compare properties and changes.</li> <li>Look at the practical uses of everyday materials.</li> </ul>	Rocks and fossils  Compare and group rocks and describe the formation of fossils.  States of matter  Look at solids, liquids and gases, changes of state, evaporation, condensation and the water cycle.  Materials  Examine the properties of materials using various tests.  Look at solubility and recovering dissolved substances.  Separate mixtures.  Examine changes to materials that create new materials that are usually not reversible.
Physics	Light  Look at sources and reflections.  Sound  Look at sources.  Electricity  Look at appliances and circuits.  Forces  Describe basic movements.  Earth and space  Observe seasonal changes.	Light  Look at sources, seeing, reflections and shadows. Explain how light appears to travel in straight lines and how this affects seeing and shadows.  Sound Look at sources, vibration, volume and pitch. Electricity Look at appliances, circuits, lamps, switches, insulators and conductors. Look at circuits, the effect of the voltage in cells and the resistance and conductivity of materials.  Forces and magnets Look at contact and distant forces, attraction and repulsion, comparing and grouping materials. Look at poles, attraction and repulsion. Look at the effect of gravity and drag forces. Look at transference of forces in gears, pulleys, levers and springs.  Earth and space Look at the movement of the Earth and the Moon Explain day and night

	1	2	3	4	5	6	7	8	9	10	
Term 1	Plants	Trees	Animals including humans		Human body	Materials	Light	Sound	Electricity	Electricity	
Term 2	Plants	Trees	Animals including humans		Human body	Materials	Light	Sound Quiz	Electricity	Quiz	
Term 3	Living things		Livings thing	gs – Habitats		Materials	Light and shadows	Sound Quiz	Electricity	Quiz	
Continu	Continuous Provision										

By growing seeds, bulbs and vegetables throughout the year:	In PE lessons:	Through experiment tables set up at various points through the year.	Through a 'daily dashboard', looking at weather and the signs of the season.
Observe and describe how seeds and bulbs grow into mature plants.	Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene.	Notice how things move, using simple comparisons such as faster and slower.	Observe changes across the four seasons.
Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.		Compare how different things move.	Observe and describe weather associated with the seasons and how day length varies.
			Observe the apparent movement of the Sun throughout the day.

	1	2	3	4	5	6	7		8	9	10
Term 1	Trees	Animals including humans	Animals including humans	Animals including humans	Living things	Materials	Li	ght	Sound	Electricity	Electricity
Term 2	Plants	Plants	Animals including humans	Animals including humans	Living things	Materials	Ea	nrth	Seasons	Electricity	Plants and trees
Term 3	Plants	Plants	The human body	Nutrition	Habitats and a adaptations	Materials	Sea	sons	Habitats	Animals	Nutrition
Continu	Continuous Provision										
Experiment with pushing objects gently and hard. Record and explain what happens.			Experiment with a slope and record how this changes the speed at which an object rolls.					he movement of rei	mote control cars and ement.	a helicopter drone.	

	1	2	3	4	5	6	7	8	9	10
Term 1	Plants	Living things	Classification key.	Habitats	Food chains	Rocks	Solids, liquids and gases	Forces	Sound	Light
Term 2	Life cycles	Adaptation	Fossils	The Water Cy	cle Light	Sound	Magnets	Electricity	Electricity	Earth
Term 3	Muscles	Digestive system	Teeth	Evolution	Soil	Shadows	Electricity	Electricity	Electricity	Earth and moon
Continu	uous Provision									
	erve and record the gr of different plants.	animals ne Describe a nutrients f	different types of nutriticed.  healthy fraction of the ror humans.  rces of humans' food.	d	Describe how deforestation is langer so specific habitats.	J	e that light from the sui s and how to protect y	our eyes. fossils of year	and describe a variety of (note that they inhabite rs ago). be the conditions in wh	ed the Earth millions

	1	2	3	4	5	6	7	8	9	10
Term 1	Plants	Living things	Classification	Habitats	Food chains	Rocks	Solids, liquids and gases	Forces	Sound	Light
Term 2	Plants	Nutrition	Fossils	Evaporation	Shadows	Magnets	Magnets	Electricity	Electricity	Earth
Term 3	Muscles	Digestive system	Teeth	Evolution and inheritance	Soil	Elec	tricity	Earth and Mo	Famous scientist	Quiz
					Continuous Prov	vision				
	erve and record the g inge of different plant	s. Describ	e different types of nutr animals need. e a healthy fraction of th nutrients for humans. ne sources of humans' fo	ne main	ind- Explore the effectiven different mediums.	ess of Explain I	now to safely view a so	olar eclipse. C	Categorise, compare and conf	rast different fossils.

	1	2	3	4	5	6	7	8	9	10	
Term 1	Evolution and adaptation	Human development	Circulatory system	Lifecycles	Materials Force		orces	Light	Shadows		
Term 2	Nutrition	Reproduction	Classification	Fil	tering, Evaporating, Sievi	ing	Sc	ound	Earth, Sun, Moon		
Term 3	Evolution	Adaptation	Dissolving, Mixing , F	Reversible changes		Irreversible changes			Electricity		
	Continuous Provision										
	Categories, compare and contract different fossils.  Explain why magnets have poles.  Experiment with cutting magnets in two.  Explain fossilisation.  Explain and observe what happens.				ns – Separating salt, san gravel (p63).	d and	Bee Watch (page 65	)			

	1	2	3	4	5	6	7	8	9	10
Term 1	Plants	Living things	Heart, exercise, and diet	Lifecycles	Filtering, sieving and evaporation	Materials and their uses.	Magnets	Gravity	Light and shadows.	Earth and Space
Term 2	Nutrients	Classification	Dissolving	Reversible change	s Friction and Drag forces	Light and seeing	Electricity	Electricity	Electricity	Earth
Term 3	Evolution	Adaptation	Materials	Forces and motio	n Light	So	bund	Sun, Earth and Moon	Earth	Famous scientist
					Continuous Prov	vision				
<b>Advancing</b> of too mu tl	PSHE/PE Diet, exercise and drugs  Advancing- Explain the possible effects of too much sugar in the diet on how the body functions.  Deep- Argue this statement- You are what you eat?  Explain and discuss the similarit differences between reproduction and animals.			n in plants Ex	ategorise and compare for plain the process of fossilis nvestigate burning fossil fu (p211)	ation.	Grouping materials (p14)	Why o	Magnet: do we call the parts of th South Pole nvestigate the Aurora Bo magnetisi	ne Earth the North and ps? prealis (link this to

#### School Requirements

