## Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Veer 1	Seasonal Changes	Everyday Materials	Seasonal Changes	Animals including	Seasonal Changes	Plants
rearin	Autumn	<ul> <li>To identify and name</li> </ul>	Spring	humans	Summer	<ul> <li>To understand what a</li> </ul>
Year 1	_					<ul> <li>To understand what a plant is.</li> <li>To name and compare the parts of plants.</li> <li>To identify and name some common garden and wild plants.</li> <li>To identify and name some common trees.</li> <li>To name, sort and compare some common fruit and vegetable plants.</li> <li>To name and compare some common plants and trees.</li> </ul>

		1		
Year 2	<ul> <li>Uses of everyday materials</li> <li>To identify uses of different everyday materials.</li> <li>To group the uses of everyday materials.</li> <li>To compare the suitability of different everyday materials.</li> <li>To explain how the shapes of objects made from some materials can be changed.</li> <li>To explain the process of recycling.</li> <li>To research the inventor John McAdam.</li> </ul>	<ul> <li>Animals including humans</li> <li>To match, sort and group young animals and their adults.</li> <li>To find out how animals change as they grow into adults.</li> <li>To compare the stages of the human life cycle.</li> <li>To research and describe what animals, including humans, need to survive.</li> <li>To test the effects of exercise on the human body.</li> <li>To investigate the importance of healthy eating and hygiene.</li> </ul>	<ul> <li>Living things and their habitats</li> <li>To compare the differences between things that are living, dead and have never been alive.</li> <li>To identify and name a variety of plants and animals in their habitats.</li> <li>To identify and name a variety of plants and animals in their microhabitats.</li> <li>To describe a habitat and identify animals live in it</li> <li>To identify how an animal is suited to its habitat.</li> <li>To describe how animals get their food by using food chains.</li> </ul>	<ul> <li>Plants</li> <li>To design and set up a test to find out what plants need to stay healthy.</li> <li>To observe and describe how seeds and bulbs grow into mature plants.</li> <li>To describe the life cycle of a plant.</li> <li>To explain what plants need to grow and stay healthy.</li> <li>To describe what happens if plants don't get all the things they need.</li> <li>To explain how plants are suited to their habitats.</li> </ul>

Year 3 Forces and Magnets To identify the forces acting on objects. To compare how things move on different surfaces.	<ul> <li>Rocks</li> <li>To compare different kinds of rocks based on their appearance.</li> <li>To compare different kinds of rocks based on</li> </ul>	<ul> <li>Light</li> <li>To recognise that I need light to see things, and that dark is the absence of light.</li> <li>To investigate which</li> </ul>	<ul> <li>Animals including humans</li> <li>To sort foods into food groups and find out about the nutrients that different foods provide.</li> </ul>	•	Plants To name the different parts of flowering plants and explain their jobs. To investigate what plants need to grow
<ul> <li>To compare and group materials according to whether they are magnetic.</li> <li>To investigate the strength of magnets.</li> <li>Understand how magnetic forces work.</li> <li>To explore magnetic</li> </ul>	<ul> <li>their physical properties.</li> <li>To explain how rocks are formed.</li> <li>To explain how fossils are formed.</li> <li>To explain Mary Anning's contribution to palaeontology.</li> <li>To understand how soil</li> </ul>	surfaces reflect light.	<ul> <li>To explore the nutritional values of different foods by gathering information from food labels.</li> <li>To label the bones in our body and understand the importance of our skeleton.</li> </ul>	•	<ul> <li>well.</li> <li>To investigate how</li> <li>water is transported in plants.</li> <li>To name the different parts of a flower and explain their role in pollination and fertilisation.</li> </ul>
poles.	is formed. • To investigate the permeability of different soils	<ul> <li>To investigate which materials block light to form shadows.</li> <li>To find patterns when investigating how shadows change size.</li> </ul>	<ul> <li>To label the muscles in our body and understand the jobs of our muscles.</li> <li>To investigate if there is a link between the length of bones and mass of muscle.</li> </ul>		To understand and order the stages of the life cycle of a flowering plant.

Year 4	Sound • To describe different sound sources and explain how sound is made. • To explain how different sounds travel. • To explore ways to	Electricity To identify common appliances that run on electricity. To identify circuit components and build working circuits. To investigate whether	<ul> <li>States of Matter</li> <li>To compare and group materials together, according to whether they are solids, liquids or gases.</li> <li>To investigate the properties of liquids.</li> </ul>	<ul> <li>Animals including Humans</li> <li>To label the different parts of the digestive system.</li> <li>To describe the simple functions of the basic parts of the digestive</li> </ul>	<ul> <li>Living things and their habitats</li> <li>To use a range of methods to sort living things.</li> <li>To identify vertebrates by observing their similarities and</li> </ul>
	<ul> <li>change the pitch of a sound.</li> <li>To investigate ways to absorb sound.</li> <li>To make a musical instrument to play different sounds.</li> </ul>	<ul> <li>circuits are complete or incomplete.</li> <li>To investigate which materials are electrical conductors or insulators.</li> <li>To explain how a switch works in a circuit, build switches and report my findings.</li> </ul>	<ul> <li>To investigate gases and explain their properties.</li> <li>To investigate materials as they change state.</li> <li>To investigate how water evaporates.</li> <li>To identify and describe the different stages of the water cycle</li> </ul>	<ul> <li>system in humans. 2 lessons on this.</li> <li>To identify the different types of teeth in humans and their simple functions.</li> <li>To understand what causes tooth decay by conducting a fair test.</li> <li>To construct and interpret a variety of food chains, identifying producers, predators and prey.</li> </ul>	<ul> <li>differences.</li> <li>To use a key to identify invertebrates.</li> <li>To create a classification key.</li> <li>To recognise positive and negative changes to the local environment.</li> <li>To describe environmental dangers to endangered species.</li> </ul>

Year 5	<ul> <li>Earth and Space</li> <li>To describe the planets in the solar system.</li> <li>To describe the sun, Earth and moon as approximately spherical bodies.</li> <li>To explain the movement of the Earth and other planets relative to the Sun in the solar system.</li> <li>To describe the</li> </ul>	<ul> <li>Forces</li> <li>To identify forces acting on objects.</li> <li>To explore the effect gravity has on objects and how gravity was discovered.</li> <li>To investigate the effects of air resistance.</li> <li>To explore the effects of water resistance.</li> <li>To investigate the</li> </ul>	<ul> <li>Properties and Changes of materials</li> <li>To compare materials according to their properties.</li> <li>To investigate thermal conductors and insulators.</li> <li>To investigate which electrical conductors make a bulb shine brightest.</li> <li>To investigate</li> </ul>	<ul> <li>Animals including humans</li> <li>To describe the stages of human development.</li> <li>To explain how babies grow and develop.</li> <li>To describe and explain the main changes that occur during puberty.</li> <li>To identify the changes that take place in old</li> </ul>	<ul> <li>Living things and their habitats</li> <li>To dissect a plant (lily) and label the reproductive organs.</li> <li>To describe how some plants reproduce.</li> <li>To describe the life cycles of different mammals.</li> <li>To explain what Jane Goodall discovered about chimpanzees.</li> </ul>
	<ul> <li>To explain day and night and the apparent movement of the sun across the sky.</li> <li>investigate night and day in different parts of the Earth.</li> <li>To explain the movement of the Moon.</li> </ul>	levers, pulleys and gears, allow a smaller force to have a greater effect.	<ul> <li>processes to separate mixtures of materials.</li> <li>To identify and explain irreversible chemical changes.</li> </ul>	<ul> <li>gestation periods for different animals.</li> <li>To explore the relationship between the length of the gestation period of an animal and their life expectancy.</li> </ul>	To compare the life cycles of plants, mammals, amphibians, insects and birds.

Year 6Evolution and inheritanceElectricity inheritanceLightAnimals including humans to explain the importance of the major discoveries in electricity. To explain the scientific concept of inheritance environment in different ways.To explain the scientific environment in different environment in different ways.To indentify how animals are adapted to suit their environment in different environment in different ways.To understand the meaning of different crocept science is into a crocult.To investigate how refraction thanges a ray of to investigate how information which light the differences.Animals including humans to understand how were science in the major are adapted to suit their environment in different ways.To indentify how animals are adapted to suit their environment in different environment in different ways.To investigate how importance of exercise and how they can help us see objects.Animals including humans to understand how morrans reflect up in the light the loudness of buzzes.Light to understand how importance of exercise and how taffects the here and also on the importance of exercise is inmortant or a healthy body.Counterstand hat regular exercise is inmortant or a healthy body.Counterstand hat regular exercise is inmortant or a healthy body.Linght the adaption may lead to environment in different travels in a crocult.Linght to adstrict up has a the induces of buzzes.Linght to adstrict up has the investigate how light enables us to see the investigate how light enables us to see the object that casts them.Linght to adstrict up has the investigate how
--