

Progression Document

	<u>Term 1</u>	<u>Term 2</u>	<u>Term 3</u>	<u>Term 4</u>	<u>Term 5</u>	<u>Term 6</u>
Year 1	<p><u>The Human Body</u></p> <ul style="list-style-type: none"> • To know our body has five senses • To know that we use our eyes to see. • To know that sounds travel through our ears to send messages to our brain • To know that our senses help us to 	<p><u>Animals and their needs</u></p> <ul style="list-style-type: none"> • To name and describe common animals. • Scientists group animals according to their features • To understand that we can group animals according to what they eat • To describe the needs of 	<p><u>Seasons and weather</u></p> <ul style="list-style-type: none"> • To name and describe the four seasons. • To know that tools are used to gather information about the weather. • To present data using a graph • To know there are different types of cloud. 	<p><u>Taking care of the earth</u></p> <ul style="list-style-type: none"> • To describe different ways that we damage the Earth • To know that there are natural and manufactured resources that people on Earth use • To identify logging as a way of 	<p><u>Plants</u></p> <ul style="list-style-type: none"> • To know what plants need in order to grow. • To name and describe the parts of a plant • To understand that plants spread their seeds to make new plants. • To understand that some trees are 	<p><u>Everyday materials</u></p> <ul style="list-style-type: none"> • To recognise everyday materials. • To identify the properties of materials. • To explain why materials are chosen for specific tasks. • To understand that materials can be sorted according to whether they

	<p>understand the world around us.</p> <ul style="list-style-type: none"> To understand that some people have problems with their senses, such as blindness or deafness. 	<p>a pet</p> <ul style="list-style-type: none"> To describe an animal using scientific words. 	<ul style="list-style-type: none"> To understand that weather forecasts help people to prepare for different kinds of weather. To understand that certain types of weather can be dangerous. 	<p>harvesting the Earth's natural resources.</p> <ul style="list-style-type: none"> To know that people create pollution which can harm the environment. To know that recycling means turning used things into something new. 	<p>evergreen and some are deciduous.</p> <ul style="list-style-type: none"> To recognise which parts of plants we eat. 	<p>are or are not attracted to magnets.</p> <ul style="list-style-type: none"> To investigate which material would be most suitable for (insert purpose).
<p>Year 2</p>	<p><u>The Human Body</u></p> <ul style="list-style-type: none"> Animals, including humans, need air, food and water to 	<p><u>Living things and their environment</u></p> <ul style="list-style-type: none"> To know the differences between living, dead and 	<p><u>Electricity</u></p> <ul style="list-style-type: none"> To identify things that use electricity To know that electricity is 	<p><u>Plants</u></p> <ul style="list-style-type: none"> To know there are many different kinds of plants. 	<p><u>Materials and matters</u></p> <ul style="list-style-type: none"> To know that materials have specific uses based on their properties. 	<p><u>Astronomy</u></p> <ul style="list-style-type: none"> To know there are eight planets in our solar system To know that

	<p>survive.</p> <ul style="list-style-type: none"> • To know that our skeleton and our muscles help us to move • To understand that our bodies digest our food. • To know that our heart pumps blood around our body • To understand that scientists have found ways to keep us healthy 	<p>never been alive.</p> <ul style="list-style-type: none"> • To know that a habitat is the name given to a place where plants or animals live. • To describe rainforests as hot and moist, and deserts as dry and hot or cold. To know that each habitat has plants and animals adapted to survive. 	<p>useful, but it can also be dangerous.</p> <ul style="list-style-type: none"> • To construct an electrical circuit • To identify materials that conduct electricity 	<ul style="list-style-type: none"> • Seeds and bulbs grow into mature plants. • Healthy plants need light and water to grow. • To understand that plants are grown for food 	<ul style="list-style-type: none"> • To know that inventors think carefully about materials and their properties. • To know that scientists use microscopes to see very small things around us. • To know that the shapes of solid objects made from some materials can be changed • To understand that water 	<p>Earth travels around the Sun.</p> <ul style="list-style-type: none"> • To know that the Moon orbits the Earth • To know that groups of stars are called constellations. • Scientists, including astronomers, learn from each other to make new discoveries about space
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<p>Year 3</p>	<p><u>The Human Body</u></p> <ul style="list-style-type: none"> • To know that we can control our voluntary muscles, but we do not control our involuntary 	<p><u>Cycles in Nature</u></p> <ul style="list-style-type: none"> • To know that our natural environment changes as the seasons change • To understand 	<p><u>Light and dark</u></p> <ul style="list-style-type: none"> • To understand that we need light in order to see things. • To know that transparent materials let 	<p><u>Plants</u></p> <ul style="list-style-type: none"> • Flowering plants all have roots, a stem or trunk, but do not all look the same. • Different 	<p><u>Rocks</u></p> <ul style="list-style-type: none"> • To know there are many different types of rocks. • To know that geologists sort rocks into 	<p><u>Forces and magnets</u></p> <ul style="list-style-type: none"> • To learn that a force is a push or a pull. • To learn that friction is the force between

	<p>muscles</p> <ul style="list-style-type: none"> • To know our bones help us to move and protect some parts of our bodies • To know that the brain is the centre of the nervous system • To understand that animals get nutrition from what they eat • To describe the simple functions of the basic 	<p>how plants can change through the seasons</p> <ul style="list-style-type: none"> • To know that plants grow, live and reproduce • To know that some animals migrate • To recognise the different stages in the life cycle of a frog 	<p>light through and opaque materials block light from passing through</p> <ul style="list-style-type: none"> • Mirrors can reflect light in different ways, depending on their shape. • Shadows change in size and shape throughout the day 	<p>plants need different amounts of things in order to thrive.</p> <ul style="list-style-type: none"> • Water moves from the roots of a plant, upwards via the stem • To know that pollination is needed for flowering plants to reproduce. • To understand that plants spread their seeds in many different ways 	<p>three main groups</p> <ul style="list-style-type: none"> • To understand that some rocks allow water to pass through, but others do not • To know that some rocks contain fossils which can tell us about life millions of years ago • To recognise that soils are made from rocks and organic matter 	<p>two surfaces.</p> <ul style="list-style-type: none"> • To learn that magnets have an invisible push or pull force. • To know that magnets have poles and a magnetic field. • To know that magnetic forces are not all the same strength
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	parts of the digestive system in humans			to reproduce.		
Year ↑	<p><u>The Human Body</u></p> <ul style="list-style-type: none"> Cells are the building blocks of the human body and we need nutrition to keep our bodies working as they should. Identify the different types of teeth in humans and their simple functions To understand 	<p><u>Classification of hearts and animals</u></p> <ul style="list-style-type: none"> To understand that we can classify animals and plants To know that fish and amphibians are vertebrates To know some of the key features of reptiles, birds and mammals 	<p><u>Ecology</u></p> <ul style="list-style-type: none"> To know that living things depend on their habitats. To understand that living things are linked within a food chain To know that living things depend on each other in an ecosystem To understand 	<p><u>Sound</u></p> <ul style="list-style-type: none"> To understand how sound is produced and how it travels. To know sound travels through the air To know the difference between pitch and volume. To understand how the human voice 	<p><u>The Water Cycle</u></p> <ul style="list-style-type: none"> To know and compare three main states of matter: solid, liquid and gas To know that evaporation occurs when a liquid turns into gas. To know that condensation occurs when gas turns into liquid (water 	<p><u>Electricity</u></p> <ul style="list-style-type: none"> To know that electricity is useful, but it can also be very dangerous. To construct an electrical circuit To learn that switches open and close a circuit To know that the lightbulb was a very

	<p>how the brain and mouth start the digestive process.</p> <ul style="list-style-type: none"> • To know how food is digested and excreted. • To understand the essential vitamins and minerals needed in our body 	<ul style="list-style-type: none"> • To understand and describe key features of insects, arachnids and molluscs • To know that plants can be classified into two main groups: flowering and non-flowering • 	<p>that air pollution is a human threat to the environment</p> <ul style="list-style-type: none"> • To know how humans have changed the environment in our local area. • 	<p>makes different sounds</p> <ul style="list-style-type: none"> • Vibrations in sound waves travel through the different parts of the ear. • 	<p>vapour into liquid water)</p> <ul style="list-style-type: none"> • To know that precipitation returns water to the surface of the Earth • To know how water changes state within the water cycle • 	<p>important invention</p> <ul style="list-style-type: none"> • To identify materials that conduct electricity •
<p>Year 5</p>	<p><u>The Human Body</u></p> <ul style="list-style-type: none"> • To recognise the first stages of human growth. 	<p><u>Materials</u></p> <ul style="list-style-type: none"> • To understand that materials can be grouped according to 	<p><u>Living things and their habitat</u></p> <ul style="list-style-type: none"> • To recognise how plants and animals 	<p><u>Forces</u></p> <ul style="list-style-type: none"> • To know that a force is either a push or a pull. 	<p><u>Astronomy</u></p> <ul style="list-style-type: none"> • To know that astronomers believe the universe began 	<p><u>Meteorology</u></p> <ul style="list-style-type: none"> • To know the atmosphere protects Earth and enables

	<p>gestation, birth and infancy</p> <ul style="list-style-type: none"> • To know that the human body changes as it goes through puberty • To identify physical and mental changes to the human body that happen from adulthood to old age • Humans and animals have growth stages of different lengths 	<p>their properties and to know the definitions of some properties</p> <ul style="list-style-type: none"> • To know that thermal conductivity means heat can be transferred through a material • To understand that a solution is a mixture of a solid in a liquid where the solid has broken into parts too small 	<p>in our local area change throughout the year</p> <ul style="list-style-type: none"> • To learn that mammals and amphibians have different life cycles. • To learn that insects and birds have different life cycles. • To know that flowering plants need pollen to reproduce. • To know that Jane Goodall 	<ul style="list-style-type: none"> • To know that friction occurs when two objects move against each other. • Objects with a large surface area will have greater air resistance than other objects with a small surface area. • How does surface area affect speed of fall in air (or water)? • Simple 	<p>with the Big Bang, and that it is still expanding today</p> <ul style="list-style-type: none"> • To understand that gravity is a force that holds objects together • To know the planets of our solar system • To understand the Moon's phases • To understand that the solar system is just a small part of our universe 	<p>life</p> <ul style="list-style-type: none"> • To know that human actions can impact the Earth's atmosphere • To know that the UK experiences six air masses affecting the weather • To know a weather front is a boundary where warm and cold air meet • To know thunder and lightning is
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		<p>to see</p> <ul style="list-style-type: none"> • To know there are methods for separating mixtures including solutions • To understand that all changes are either reversible or irreversible • 	<p>and David Attenborough have dedicated their lives to studying the natural world and communicating their findings.</p>	<p>machines help us to increase the force we apply to an object to help us move it</p>	<ul style="list-style-type: none"> • 	<p>caused by electrical charge moving through the air.</p>
<p>Year 6</p>	<p><u>The Human Body</u></p> <ul style="list-style-type: none"> • To understand that the heart pumps blood around the body 	<p><u>Classification of living things</u></p> <ul style="list-style-type: none"> • To know there are five kingdoms of organisms 	<p><u>Electricity</u></p> <ul style="list-style-type: none"> • Electricity flows in a circuit • The brightness of a lamp or the volume of 	<p><u>Light</u></p> <ul style="list-style-type: none"> • To know that light is a source of illumination that allows us 	<p><u>Reproduction</u></p> <ul style="list-style-type: none"> • To know that asexual reproduction does not require male 	<p><u>Evolution</u></p> <ul style="list-style-type: none"> • To know fossils are physical evidence of

	<ul style="list-style-type: none"> • To understand that blood vessels transport blood around the body • To understand how the heart rate can speed up or slow down, depending on what is happening to the body • There are many things that can be varied and changed in an experiment, we 	<ul style="list-style-type: none"> • To know that plant and animal cells are different • To know that taxonomy is used to show how organisms are related to each other • To know that vertebrates are classified into five groups: fish, amphibians, reptiles, birds and mammals. • To understand that scientists divide 	<p>a buzzer depends on the number and voltage of cells used in a circuit</p> <ul style="list-style-type: none"> • Switches control the flow of electricity in a circuit • To know that circuits can be used to make electrical toys. • 	<p>to see</p> <ul style="list-style-type: none"> • To know that light enters our eyes, enabling us to see. • To test the hypothesis that shadows are always the same shape as the object that made them • To understand what light is made of and how a prism works. • A periscope uses mirrors to reflect an 	<p>and female cells.</p> <ul style="list-style-type: none"> • To understand sexual reproduction in flowering plants. • To know many plants clothe their seeds with fruit • To understand sexual reproduction in animals. • To know that different animals have different growth stages. 	<p>life from long ago</p> <ul style="list-style-type: none"> • To know offspring are usually similar, but not identical, to their parents • To know living things can adapt to suit their environment • To know who Charles Darwin was and what natural
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	<p>call the things we can change variables</p> <ul style="list-style-type: none">• To understand that blood is made up of different components	<p>invertebrates into groups including insects, arachnids and molluscs.</p> <ul style="list-style-type: none">•		<p>image of something out of sight</p>		<p>selection is</p> <ul style="list-style-type: none">• To know who Alfred Wallace was and understand his contribution to the theory of evolution•
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