

Kelloe Science	Autumn	Spring	Summer
Year 1	<p>Animals including humans</p> <ul style="list-style-type: none"> • Know the name of parts of the human body that can be seen <p>Seasonal change – Autumn Seasonal change – Winter</p> <ul style="list-style-type: none"> • Name the seasons and know about the type of weather in each season 	<p>Everyday Materials</p> <ul style="list-style-type: none"> • Know the name of the materials an object is made from • Know about the properties of everyday materials <p>Seasonal change – Spring</p> <ul style="list-style-type: none"> • Name the seasons and know about the type of weather in each season 	<p>Animals including humans – Carnivores</p> <ul style="list-style-type: none"> • Know how to classify a range of animals by amphibian, reptile, mammal, fish and birds • Know and classify animals by what they eat • Know how to sort by living and non living things <p>Seasonal change – Summer</p> <ul style="list-style-type: none"> • Name the seasons and know about the type of weather in each season <p>Plants</p> <ul style="list-style-type: none"> • Know and name a variety of common wild and garden plants • Know and name the petals, stem, leaves and root of a plant • Know and name the roots, trunk, branches and leaves of a tree
Year 2	<p>Animals including humans</p> <ul style="list-style-type: none"> • Know the basic stages in a life cycle for animals including humans • Know why exercise, a balanced diet and good hygiene are important for humans <p>Living things and their habitats</p>	<p>Everyday materials</p> <ul style="list-style-type: none"> • Know how materials can be changed by squashing, bending, twisting and stretching • Know why a material might or might not be used for a specific job 	<p>Plants</p> <ul style="list-style-type: none"> • Know and explain how seeds and bulbs grow into plants • Know what plants need in order to grow and stay healthy

	<ul style="list-style-type: none"> • Classify things by living, dead or never lived • Know how a specific habitat provides for the basic needs of things living there • Match living things to their habitat • Name some different sources of food for animals • Know about and explain a simple food chain 		
Year 3	<p>Rocks</p> <ul style="list-style-type: none"> • Compare and group rocks based on their appearance and physical properties • Know how soil is made and how fossils are formed • Know about and explain the difference between sedimentary, metamorphic and igneous rock <p>Light</p> <ul style="list-style-type: none"> • Know that dark is the absence of light • Know that light is needed in order to see and is reflected from a surface • Know and demonstrate how a shadow is formed and explain how a shadow changes shape • Know about the danger of direct sunlight and describe how to keep protected 	<p>Forces</p> <ul style="list-style-type: none"> • Know about and describe how objects move on different surfaces • Know how a simple pulley works • Know how some forces require contact and some do not • Know about and explain how magnets attract and repel <p>Animals including humans</p> <ul style="list-style-type: none"> • Know about the importance of a nutrition diet • Know how nutrients, water and oxygen are transported within animals and humans • Know about the skeletal and muscular system of a human 	<p>Plants</p> <ul style="list-style-type: none"> • Know the function of different parts of flowering plants and trees • Know how water is transported within plants • Know the plant life cycle

Year 4	<p>Animals including humans</p> <ul style="list-style-type: none"> • Identify and name the parts of the digestive system • Know the functions of the organs in the human digestive system • Identify and know the different types of human teeth • Know the functions of human teeth • Use and construct food chains to identify producers, predators and prey <p>All living things and their habitats</p> <ul style="list-style-type: none"> • Use classification keys to group, identify and name living things • Know how changes to an environment could endanger living things • Group materials based on their state of matter 	<p>States of Matter</p> <ul style="list-style-type: none"> • Know the temperature at which materials change state • Know about and explore how some materials can change state • Know the part played by evaporation and condensation in the water cycle 	<p>Electricity</p> <ul style="list-style-type: none"> • Identify and name appliances that require electricity to function • Construct a series circuit • Identify and name the components in a series circuit • Predict and test whether a lamp will light within a circuit • Know the function of a switch • Know the difference between a conductor and an insulator <p>Sound</p> <ul style="list-style-type: none"> • Know how sound is made • Know how sound travels from a surface to our ears • Know the correlation between pitch and the object • Know the correlation between the volume of a sound and the strength of the vibrations that produced it • Know what happens to a sound as it travels away from its source
Year 5	<p>Forces</p> <ul style="list-style-type: none"> • Know what gravity is and its impact on our lives • Identify and know the effect of air and water resistance • Identify and know the effect of friction 	<p>All living things and their habitats</p> <ul style="list-style-type: none"> • Know the life cycle of different living things • Know the differences between different life cycles • Know the process of reproduction in plants • Know the process of reproduction in animals 	<p>Animals including Humans</p> <ul style="list-style-type: none"> • Create a timeline to indicate stages of growth in humans <p>Properties and changes in Materials</p> <ul style="list-style-type: none"> • Compare and group properties based on their properties • Know and explain how a material dissolves to form a solution

	<ul style="list-style-type: none"> • Explain how levers, pulleys and gears allow a smaller force to have a greater effect <p>Earth and Space</p> <ul style="list-style-type: none"> • Know about and explain the movement of the Earth and other planets relative to the sun • Know about and explain the movement of the moon relative to the Earth • Know and demonstrate how night and day are created • Describe the sun, earth and moon using the term spherical 		<ul style="list-style-type: none"> • Know and show how to recover a substance from a solution • Know and demonstrate how some materials can be separated • Know and demonstrate that some changes are reversible, and some are not • Know how some changes result in the formation of a new material
Year 6	<p>Animals including humans</p> <ul style="list-style-type: none"> • Identify and name the main parts of the human circulatory system • Know the functions of the heart, blood vessels and blood • Know the impact of diet, exercise drugs and lifestyle on health • Know the way in which nutrients and water are transported <p>Living things and their habitats</p> <ul style="list-style-type: none"> • Classify living things into broad groups based on similarities and differences • Know how living things can be classified • Give reasons for classifying plants and animals in a specific way 	<p>Light</p> <ul style="list-style-type: none"> • Know how light travels • Know and demonstrate how we see objects • Know why shadows have the same shape as the object that casts them • Know how simple optical instruments work <p>Evolution and inheritance</p> <ul style="list-style-type: none"> • Know how the earth and living things have changed over time • Know how fossils can be used to find out about the past • Know about reproduction and offspring • Know how animals and plants are adapted to suit their environment 	<p>Electricity</p> <ul style="list-style-type: none"> • Compare and give reasons why components work and do not work in a circuit • Draw circuit diagrams using correct symbols • Know how the number and voltage of cells in a circuit links to the brightness of a lamp or the volume of a buzzer

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