

Science Long Term Grid Year 3

Autumn Term	Spring Term	Summer Term
<p><u>Animals, including humans</u></p> <ul style="list-style-type: none"> - To identify that animals, including humans, need the right types and amount of nutrition. - They cannot make their own food; they get nutrition from what they eat. - To learn that different animals have different diets. - To identify that humans and some other animals have skeletons and muscles for support, protection and movement. - To learn that humans have teeth – molars for chewing, canines for tearing, incisors for cutting – and that teeth help us to eat. - To learn that the shape of the teeth makes them useful for different purposes. <p><u>Characteristics of materials</u></p> <ul style="list-style-type: none"> - Identify a range of common materials and know that the same material is used to make different objects. - To recognise properties such as hardness, strength and flexibility and compare materials in terms of these properties. - To learn that materials are suitable for making a particular object because of their properties and that some properties are more important than others when deciding what to use. - Plan a test to compare the absorbency of different papers, deciding what evidence to collect, considering what to change, what to keep the same and what to measure. 	<p><u>Forces and Magnets</u></p> <ul style="list-style-type: none"> - Compare how things move on different surfaces. - To notice that some forces need contact between two objects, but magnetic forces can act at a distance. - Make observations on how magnets attract and repel each other and attract some materials and not others. - Make comparisons and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials. - Be able to describe that magnets have two poles - Predict whether two magnets will attract or repel each other, depending on which poles are facing <p><u>Rocks</u></p> <ul style="list-style-type: none"> - To compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. - Describe in simple terms how fossils are formed when things that have lived are trapped within rock. - To recognise that soils are made from rocks and organic matter. 	<p><u>Light and Shadow</u></p> <ul style="list-style-type: none"> - Recognise that light is needed in order to see things and that dark is the absence of light. - To notice that light is reflected from surface. - Recognise that light from the sun can be dangerous and that there are ways to protect their eyes - To recognise that shadows are formed when the light from a light source is blocked by a solid object. - To find patterns in the way that the size of shadows change. <p><u>Plants</u></p> <ul style="list-style-type: none"> - To identify and describe the functions of different flowering plants: roots, stem/trunk, leaves and flowers. - To explore the requirements of plants for life and growth (air, light, water, nutrients from the soil, and room to grow) and how they vary from plant to plant. - Investigate the way in which water is transported within plants. - Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.