

<p>To investigate living things</p> <p>To understand evolution and inheritance</p>	<ul style="list-style-type: none"> Describe the importance for humans of exercise, eating the right amounts of different types of food and hygiene Describe and compare the structure of a variety of common animals <ul style="list-style-type: none"> Explore and compare the differences between things that are living, that are dead and that have never been alive. Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats, including micro-habitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food Identify how humans resemble their parents in many features. 	<ul style="list-style-type: none"> Explore and use classification keys. Recognise that living things can be grouped in a variety of ways. Recognise that environments can change and that this can sometimes pose dangers to specific habitats Identify how plants and animals, including humans, resemble their parents in many features. Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago Identify how animals and plants are suited to and adapt to their environment in different ways. 	<ul style="list-style-type: none"> Describe the differences in the life cycles of a mammal, amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals. Describe how living things are classified into broad groups according to common observable characteristics. Give reasons for classifying plants and animals based on specific characteristics. Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago. Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.
<p>Chemistry</p> <p>To investigate materials</p>	<ul style="list-style-type: none"> Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock. [12] Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock, and paper/cardboard for particular uses. 	<ul style="list-style-type: none"> Compare and group together different kinds of rocks on the basis of their simple, physical properties. Relate the simple physical properties of some rocks to their formation (igneous or sedimentary). Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rock Recognise that soils are made from rocks and organic matter. Compare and group materials together, according to whether they are solids, liquids or gases Observe that some materials change state when they are heated or cooled, and measure the temperature at which this happens in degrees Celsius (°C), building on the teaching in mathematics. Identify the part played by evaporation and condensation in the water cycle, and associate the rate of evaporation with temperature. 	<ul style="list-style-type: none"> Compare and group together everyday materials based on evidence from comparative and fair tests, including their hardness, solubility, conductivity (electrical and thermal) and response to magnets Understand how some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning, oxidisation and the action of acid on bicarbonate of soda.
<p>Physics</p> <p>To understand movement, forces and magnets</p>	<ul style="list-style-type: none"> Notice and describe how things move, using simple comparisons such as faster and slower Compare how different things move. 	<ul style="list-style-type: none"> Compare how things move on different surfaces. Compare how things move on different surfaces. Compare how things move on different surfaces. 	<ul style="list-style-type: none"> Predict whether two magnets will attract or repel each other, depending on which poles are facing.

<p>To understand light and seeing</p>	<ul style="list-style-type: none"> ● Observe and name a variety of sources of light, including electric lights, flames and the Sun, explaining that we see things because light travels from them to our eyes 	<ul style="list-style-type: none"> ● Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet and identify some magnetic materials. ● Describe magnets as having two poles 	<ul style="list-style-type: none"> ● Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. ● Identify the effect of drag forces, such as air resistance, water resistance and friction that acts between moving surfaces. ● Describe, in terms of drag forces, why moving objects that are not driven tend to slow down. ● Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and spring ● Understand that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect ● Understand that light appears to travel in straight lines. ● Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyes. ● Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them, and to predict the size of shadows when the position of the light source changes ● Explain that we see things because light travels from light sources to our eyes or from objects and then to our eyes. [17] With structured activities there is an awareness
<p>To investigate sound and hearing</p>	<ul style="list-style-type: none"> ● Observe and name a variety of sources of sound, noticing that we hear with our ears. 	<ul style="list-style-type: none"> ● Notice that light is reflected from surfaces. ● Recognise that shadows are formed when the light from a light source is blocked by a solid object. ● Recognise that light is needed in order to see things and that dark is the absence of light. ● Recognise that light from the sun can be dangerous and that there are ways to protect the eyes. ● Recognise that light from the sun can be dangerous and that there are ways to protect the eyes. 	<ul style="list-style-type: none"> ● Find patterns between the pitch of a sound and features of the object that produced it. ● Find patterns between the volume of a sound and the strength of the vibrations that produced it. ● Recognise that sounds get fainter as the distance from the sound source increases.
<p>To understand electrical circuits</p>	<ul style="list-style-type: none"> ● Identify common appliances that run on electricity. 	<ul style="list-style-type: none"> ● Identify how sounds are made, associating some of them with something vibrating. ● Recognise that vibrations from sounds travel through a medium to the ear. ● Identify whether or not a lamp will light in a simple series circuit based on whether or not the lamp is part of a complete loop with a battery. ● Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. ● Recognise some common conductors and insulators and associate metals with being good conductors 	<ul style="list-style-type: none"> ● Use recognised symbols when representing a simple circuit in a diagram. ● Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.

<p>To understand the Earth's movement in space</p>	<ul style="list-style-type: none">● Observe changes across the four seasons.● Observe and describe weather associated with the seasons and how day length varies.	<ul style="list-style-type: none">● Identify common appliances that run on electricity.● Construct a simple series circuit identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.● Observe the apparent movement of the Sun during the day.●	<ul style="list-style-type: none">● Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches ● Describe the movement of the Earth relative to the Sun in the solar system.● Describe the movement of the Moon relative to the Earth. [23] With support, the movement of the Moon relative to the Earth ● Describe the Sun, Earth and Moon as approximately spherical bodies.● Use the idea of the Earth's rotation to explain day and night.
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