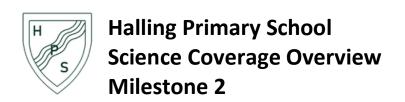


Week	Terms 1 & 2	Terms 3 & 4	Terms 5 & 6
1	Biology To Understand Evolution and Inheritance  Identify how humans resemble their parents in many features.	Biology To Investigate Living Things  • Identify that most living things live in habitats to which they are suited and describe how different habitats provide for	Biology To Understand Plants  • Identify and name a variety of common plants, including garden plants, wild plants and trees and those classified as deciduous
2		the basic needs of different kinds of animals and plants and how they depend on each other.	<ul><li>and evergreen.</li><li>Identify and describe the basic structure of</li></ul>
3	Biology To Understand Animals and Humans  • Identify, name, draw and label the basic	Identify and name a variety of plants and animals in their habitats, including microhabitats.	<ul> <li>a variety of common flowering plants, including roots, stem/trunk, leaves and flowers.</li> <li>Observe and describe how seeds and bulbs grow into mature plants.</li> </ul>
4	parts of the human body and say which part of the body is associated with each sense.	<ul> <li>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.</li> </ul>	<ul> <li>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li> </ul>
5	<ul> <li>Notice that animals, including humans, have offspring which grow into adults.</li> <li>Investigate and describe the basic needs of animals, including humans, for survival</li> </ul>	Chemistry To Investigate Materials  • Distinguish between an object and the	<ul> <li>Identify and name a variety of common animals that are birds, fish, amphibians, reptiles, mammals and invertebrates.</li> </ul>
6	<ul> <li>(water, food and air).</li> <li>Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.</li> </ul>	<ul> <li>material from which it is made.</li> <li>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water and rock.</li> </ul>	<ul> <li>Identify and name a variety of common animals that are carnivores, herbivores and omnivores.</li> <li>Describe and compare the structure of a</li> </ul>
7		Describe the simple physical properties of a variety of everyday materials.	variety of common animals (birds, fish, amphibians, reptiles, mammals and invertebrates, including pets).
8	Biology To Investigate Living Things	<ul> <li>Compare and group together a variety of everyday materials on the basis of their simple physical properties.</li> <li>Find out how the shapes of solid objects</li> </ul>	Physics To Understand Movement, Forces
9	<ul> <li>Explore and compare the differences between things that are living, that are dead and things that have never been alive.</li> </ul>	made from some materials can be changed by squashing, bending, twisting and stretching.	<ul> <li>and Magnets</li> <li>Notice and describe how things move, using simple comparisons such as faster and slower.</li> </ul>
10		<ul> <li>Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick/rock and paper/cardboard for particular uses.</li> </ul>	Compare how different things move.
11	<ul> <li>Physics</li> <li>To Understand Electrical Circuits</li> <li>Identify common appliances that run on electricity.</li> <li>Construct a simple series electrical circuit.</li> </ul>	Physics To Understand The Earth's Movement in Space  • Observe the apparent movement of the Sunduring the day.	Physics To Understand Light and Seeing  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.
12		<ul> <li>Observe changes across the four seasons.</li> <li>Observe and describe weather associated with the seasons and how day length varies.</li> </ul>	<ul> <li>Physics</li> <li>To Investigate Sound and Hearing</li> <li>Observe and name a variety of sources of sound, noticing that we hear with our ears.</li> </ul>



Week	Terms 1 & 2	Terms 3 & 4	Terms 5 & 6
1	Physics To Understand the Earth's Movement in Space  • Describe the movement of the Earth relative to the Sun in the solar system.  • Describe the movement of the Moon relative to the Earth.	Biology	Biology To Understand Evolution and Inheritance  Identify how plants and animals, including humans, resemble their parents in many features.
2	Chemistry To Investigate Materials  • Compare and group together different	To Understand Animals and Humans  • Construct and interpret a variety of food chains, identifying producers, predators and prey.	<ul> <li>Identify how animals and plants are suited to and adapt to their environment in different ways.</li> <li>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.</li> </ul>
3	<ul> <li>kinds of rocks on the basis of their simple, physical properties.</li> <li>Relate the simple physical properties of some rocks to their formation (igneous or sedimentary).</li> <li>Recognise that soils are made from rocks</li> </ul>	<ul> <li>Identify that humans and some animals have skeletons and muscles for support, protection and movement.</li> <li>Describe the simple functions of</li> </ul>	Chemistry To Investigate Materials
4	the basic parts of the dig system in humans.  • Identify the different type teeth in humans and	<ul> <li>Identify the different types of teeth in humans and their</li> </ul>	Describe in simple terms how fossils are formed when things that have lived are trapped within sedimentary rock.
5	<ul> <li>To Understand Plants</li> <li>Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers.</li> </ul>	simple functions.	Physics To Understand Movement, Forces and Magnets  Notice that some forces need contact between two
6	<ul> <li>Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.</li> </ul>		<ul> <li>objects, but magnetic forces can act at a distance.</li> <li>Observe how magnets attract or repel each other and attract some materials and not others.</li> <li>Compare and group together a variety of everyday</li> </ul>
7	<ul> <li>Investigate the way in which water is transported within plants.</li> <li>Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li> </ul>	Biology To Investigate Living Things	<ul> <li>materials on the basis of whether they are attracted to a magnet and identify some magnetic materials.</li> <li>Describe magnets as having two poles.</li> <li>Predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> </ul>
8	Biology To Understand Animals and Humans  Identify that animals, including humans,	<ul> <li>Recognise that living things can be grouped in a variety of ways.</li> <li>Explore and use classification keys.</li> <li>Recognise that environments</li> </ul>	Physics To Understand Light and Seeing
9	need the right types and amounts of nutrition, that they cannot make their own food and they get nutrition from what they eat.	can change and that this can sometimes pose dangers to specific habitats.	<ul> <li>Recognise that light is required in order to see things and that dark is the absence of light.</li> <li>Notice that light is reflected from surfaces.</li> <li>Recognise that light from the Sun can be dangerous and that there are ways to protect your eyes.</li> </ul>
10	Chemistry To Investigate Materials  • Compare and group materials together, according to whether they are solids,	Physics To Understand Movement, Forces and Magnets  Compare how things move on different surfaces.	<ul> <li>Recognise that shadows are formed when the light from a light source is blocked by a solid object.</li> <li>Find patterns in the way that the size of a shadow changes.</li> </ul>
11	<ul> <li>liquids or gases.</li> <li>Observe that some materials change state when they are heated or cooled, and measure the temperature at which this</li> </ul>	Physics To Understand Sound	Physics To Understand Electrical Circuits Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying
12	<ul> <li>happens in degrees Celsius (°C), building on the teaching in mathematics.</li> <li>Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</li> </ul>	<ul> <li>and Hearing</li> <li>Identify how sounds are made, associating some of them with something vibrating.</li> <li>Recognise that vibrations from sounds travel through a medium to the ear.</li> </ul>	<ul> <li>Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.</li> <li>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.</li> <li>Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit.</li> </ul>

simple series circuit.



Week	Terms 1 & 2	Terms 3 & 4	Terms 5 & 6
1	Biology To Investigate Living Things	Biology To understand animals and humans	Physics To Understand the Earth's Movement in Space  • Describe the movement of the Earth relative to the Sun in the solar system.
2	<ul> <li>To Investigate Living Things</li> <li>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</li> <li>Describe the life process of reproduction in some plants and animals.</li> <li>Describe how living things are classified into broad groups according to common observable characteristics.</li> </ul>	<ul> <li>Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.</li> <li>Recognise the importance of diet, exercise, drugs and lifestyle on the way the human body functions.</li> <li>Describe the ways in which nutrients and water are transported within animals, including humans.</li> </ul>	<ul><li>to the Earth.</li><li>Describe the Sun, Earth and Moon as approximately spherical bodies.</li></ul>
3			Biology To Understand Plants  Relate knowledge of plants to studies of evolution and inheritance.
4	<ul> <li>Chemistry</li> <li>To Investigate Materials</li> <li>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.</li> <li>Understand how some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</li> <li>Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.</li> <li>Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals,</li> </ul>	<ul> <li>Physics</li> <li>To Investigate Sound and Hearing</li> <li>Find patterns between the pitch of a sound and features of the object that produced it.</li> <li>Find patterns between the volume of a sound and the strength of the vibrations that produced it.</li> <li>Recognise that sounds get fainter as the distance from the sound source increases.</li> </ul>	<ul> <li>Relate knowledge of plants to studies of all living things.</li> <li>Describe the changes as humans develop to old age.</li> </ul>
5			<ul> <li>Biology</li> <li>To Investigate Living Things</li> <li>Give reasons for classifying plants and animals based on specific characteristics.</li> </ul>
6			Biology To Understand Evolution and Inheritance  Identify how animals and plants are adapted to suit their environment in different ways and how that adaptation may lead to evolution.
7	<ul> <li>wood and plastic.</li> <li>Demonstrate that dissolving, mixing and changes of state are reversible changes.</li> <li>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.</li> </ul>	Biology To Understand Evolution and Inheritance  Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of	Physics To Understand Movement, Forces and Magnets  • Describe, in terms of drag forces, why moving
8		<ul> <li>Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.</li> </ul>	<ul> <li>objects that are not driven tend to slow down.</li> <li>Understand that force and motion can be transferred through mechanical devices such as gears, pulleys, levers and springs.</li> <li>Understand that some mechanisms, including levers, pulleys and gears, allow a</li> </ul>
9	Physics To Understand Movement, Forces and Magnets	Physics To Understand Electrical Circuits	smaller force to have a greater effect.
10	<ul> <li>Describe magnets as having two poles.</li> <li>Predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> <li>Explain that unsupported objects fall towards the Earth because of the force of gravity acting</li> </ul>	<ul> <li>Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit.</li> <li>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.</li> </ul>	Physics To Understand Light and Seeing  • Understand that light appears to travel in straight lines.  • Use the idea that light travels in straight lines
11	<ul> <li>between the Earth and the falling object.</li> <li>Identify the effect of drag forces such as air resistance, water resistance and friction that act between moving surfaces.</li> </ul>	Use recognised symbols when representing a simple circuit in a diagram.	<ul> <li>to explain that objects are seen because they give out or reflect light into the eyes.</li> <li>Use the idea that light travels in straight lines to explain why shadows have the same shape</li> </ul>
12		Physics To Understand the Earth's Movement in Space  • Describe the movement of the Earth relative to the Sun in the solar system.	<ul> <li>as the objects that cast them, and to predict the size of shadows when the position of the light source changes.</li> <li>Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.</li> </ul>