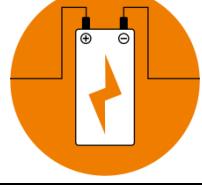


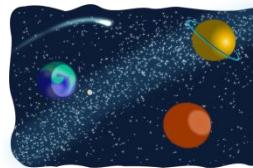
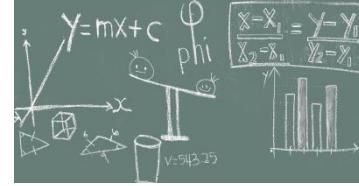
## Curriculum Overview: Science

<b>Science at Morningside</b> <b>We are scientists @ Morningside</b>						
<i>'Most people say that it is the intellect which makes a great scientist. They are wrong: it is character.' Albert Einstein</i> <i>'People who say it cannot be done should not interrupt those who are doing it.' George Bernard Shaw</i>						
	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
Year 1						
	<b>Why did the third little pig build his house out of bricks?</b> <ul style="list-style-type: none"> <li>Identify and name different materials</li> <li>Group different materials</li> <li>Describe simple properties of materials</li> </ul>	<b>How are animals different?</b> <ul style="list-style-type: none"> <li>Name and identify animals</li> <li>Omnivores, carnivores and herbivores</li> <li>Name and label basic body parts</li> </ul>	<b>Why is it cold in winter?</b> <ul style="list-style-type: none"> <li>Observe changes across the 4 seasons</li> <li>Observe and describe weather across the seasons</li> <li>Describe how day length varies</li> </ul>		<b>How does your garden grow?</b> <ul style="list-style-type: none"> <li>Identify and name plants and trees</li> <li>Identify and label parts of a plant</li> <li>Discover how plants have changed over time</li> </ul>	<b>How are animals different?</b> <ul style="list-style-type: none"> <li>Name and identify animals</li> <li>Omnivores, carnivores and herbivores</li> <li>Name and label basic body parts</li> </ul>
Year 2						
	<b>What would a plant put on its wish list?</b> <ul style="list-style-type: none"> <li>Identify and name plants and trees</li> <li>Identify and label parts of a plant</li> <li>Discover how plants have changed over time</li> <li>Compare plants and their habitats</li> <li>Compare plants</li> <li>Label parts of a plant and understand how plants reproduce</li> </ul>	<b>Which material would make the best wellies?</b> <ul style="list-style-type: none"> <li>Identify &amp; compare everyday materials</li> <li>Explore how to change the shape of solid objects</li> <li>Choose suitable materials for purpose</li> </ul>	<b>How do animals survive?</b> <ul style="list-style-type: none"> <li>Compare animals over time</li> <li>The importance of a balanced diet</li> <li>The importance of personal hygiene</li> </ul>		<b>Who lives where?</b> <ul style="list-style-type: none"> <li>Understand living things live in habitats to which they are suited</li> <li>Identify plants and animals in a microhabitat</li> <li>Discover how animals obtain food</li> </ul>	

## Curriculum Overview: Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	 <b>How does your garden grow?</b> <ul style="list-style-type: none"> <li>Explore the requirements of a flowering plant</li> <li>Explain how water travels in plants</li> <li>Understand pollination</li> <li>Compare plants and their habitats</li> <li>Compare plants</li> <li>Label parts of a plant and understand how plants reproduce</li> </ul>	 <b>Why can we see in the dark?</b> <ul style="list-style-type: none"> <li>Recognise that light is needed for sight</li> <li>Understand how light travels to the eye</li> <li>Explain how a shadow is formed</li> </ul>	 <b>Why are our bodies special?</b> <ul style="list-style-type: none"> <li>Classify foods into groups</li> <li>Understand that nutrition comes from food</li> <li>Understand the function of the skeleton</li> </ul>	 <b>Do all forces involve contact?</b> <ul style="list-style-type: none"> <li>Compare how things move on different surfaces</li> <li>Understand that magnets attract some materials but not others</li> <li>Understand that not all forces require contact</li> </ul>	 <b>Why did the wise man build his house upon the rock?</b> <ul style="list-style-type: none"> <li>Compare rocks according to their properties</li> <li>Discover how different rocks are formed</li> <li>Find out what rocks are made from</li> </ul>	
Year 4	 <b>How does your garden grow?</b> <ul style="list-style-type: none"> <li>Explore the requirements of a flowering plant</li> <li>Explain how water travels in plants</li> <li>Understand pollination</li> </ul>	 <b>How can we tell the difference between living things?</b> <ul style="list-style-type: none"> <li>Group living things</li> <li>Use classification keys</li> <li>Explore our local environment</li> <li>Construct basic food chains</li> <li>Identify parts of the digestive system</li> <li>Identify different types of teeth and their functions</li> </ul>	 <b>What do we need to create power?</b> <ul style="list-style-type: none"> <li>Identify appliances that run off electricity</li> <li>Construct a simple circuit</li> <li>Identify conductors and insulators</li> </ul>	 <b>Why do objects make different sounds?</b> <ul style="list-style-type: none"> <li>Understand that sound is created by vibrations</li> <li>Understand how sound travels to the ear</li> <li>Recognise the relationship between sound and distance</li> </ul>	 <b>Why do materials change state?</b> <ul style="list-style-type: none"> <li>Observe changes of state</li> <li>Understand evaporation and condensation</li> <li>Describe the stages in the water cycle</li> </ul>	

## Curriculum Overview: Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5						
	<p><b>How could forces keep us safe?</b></p> <ul style="list-style-type: none"> <li>Explain why objects fall to the Earth</li> <li>Investigate air resistance</li> <li>Investigate the effect of water on gravity</li> </ul>	<p><b>Do all species start as an egg?</b></p> <ul style="list-style-type: none"> <li>Explain how humans have changed through time</li> <li>Predict how humans will change over time</li> <li>Describe the process of animal reproduction</li> <li>Describe plant reproduction</li> </ul>	<p><b>What would you need to be a CSI investigator?</b></p> <ul style="list-style-type: none"> <li>Observe changes of state</li> <li>Understand evaporation and condensation</li> <li>Describe the stages in the water cycle</li> <li>Compare and group everyday materials.</li> <li>Explain dissolving</li> <li>Identify reversible and irreversible changes</li> </ul>		<p><b>Would you ever want to live in space?</b></p> <ul style="list-style-type: none"> <li>Describe the planets in the solar system</li> <li>Describe the movement of the moon</li> <li>Explain day and night</li> </ul>	
Year 6						
	<p><b>Circuit breaker or circuit fixer?</b></p> <ul style="list-style-type: none"> <li>Design circuits for a burglar alarm</li> <li>Identify broken circuits</li> <li>Create a circuit diagram using symbols</li> </ul>	<p><b>Why can't I see round corners?</b></p> <ul style="list-style-type: none"> <li>Identify the factors that affect shadows</li> <li>Understand light is reflected</li> <li>Investigate light phenomena</li> <li>Describe the movement of the moon</li> <li>Explain day and night</li> </ul>	<p><b>Why aren't there any dinosaurs in Hackney?</b></p> <ul style="list-style-type: none"> <li>Identify animals from fossils</li> <li>Understand variation</li> <li>Understand how adaptation leads to evolution</li> </ul>	<p><b>Which bits of my body could I live without?</b></p> <ul style="list-style-type: none"> <li>Name the main parts of the circulatory system</li> <li>Understand pulse and blood pressure</li> <li>Describe the function of blood</li> </ul>	<p><b>How do we know a camel is a mammal?</b></p> <ul style="list-style-type: none"> <li>Classify organisms using keys</li> <li>Design a classification key</li> <li>Design a creature</li> </ul>	Revision of previous units