

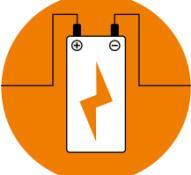
Curriculum Overview: Science

 Science at Morningside
 We are scientists @ Morningside

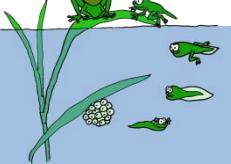
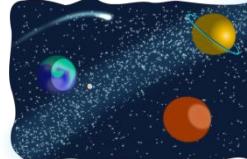
'Most people say that it is the intellect which makes a great scientist. They are wrong: it is character.' Albert Einstein
 'People who say it cannot be done should not interrupt those who are doing it.' George Bernard Shaw

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	 Why did the third little pig build his house out of bricks? <ul style="list-style-type: none"> Identify and name different materials Group different materials Describe simple properties of materials 	 How are animals different? <ul style="list-style-type: none"> Name and identify animals Omnivores, carnivores and herbivores Name and label basic body parts 	 Why is it cold in winter? <ul style="list-style-type: none"> Observe changes across the 4 seasons Observe and describe weather across the seasons Describe how day length varies 	 How does your garden grow? <ul style="list-style-type: none"> Identify and name plants and trees Identify and label parts of a plant Discover how plants have changed over time 	 How are animals different? <ul style="list-style-type: none"> Name and identify animals Omnivores, carnivores and herbivores Name and label basic body parts 	
Year 2	 Which material would make the best wellies? <ul style="list-style-type: none"> Identify & compare everyday materials Explore how to change the shape of solid objects Choose suitable materials for purpose 	 How do animals survive? <ul style="list-style-type: none"> Compare animals over time The importance of a balanced diet The importance of personal hygiene 	 Who lives where? <ul style="list-style-type: none"> Understand living things live in habitats to which they are suited Identify plants and animals in a microhabitat Discover how animals obtain food 	 What would a plant put on its wish list? <ul style="list-style-type: none"> Compare plants and their habitats Compare plants Label parts of a plant and understand how plants reproduce 		

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

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