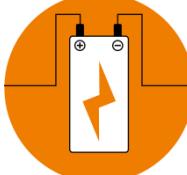


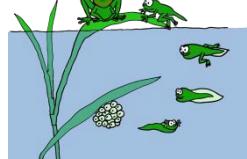
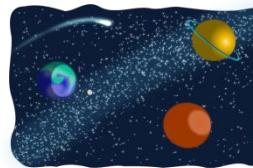
Curriculum Overview: Science

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

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