



**Brookside School - Long Term Plan - Science Cycle 1**  
(Refer to subject progression documents for a more in-depth overview)

|                 | Autumn 1  | Autumn 2  | Spring 1  | Spring 2   | Summer 1  | Summer 2  |
|-----------------|---|---|---|--|---|---|
| <b>EYFS</b>     | <p><b>Seasonal Change</b><br/>How does it become dark at night and light in the day?<br/>Identify how the Earth orbits the sun and this causes day and night.</p> <p><b>**Seasonal change is visited throughout the year.</b></p> | <p><b>Everyday Materials</b><br/>How are materials different? What can we use hard or soft materials for?<br/>Investigate materials in their environments and describe similarities and differences.</p>  | <p><b>Lifecycle and plants</b><br/>How are plants similar and different? What is a lifecycle?<br/>Observe and investigated the similarities and differences of plants and animals. Discuss the life cycle of an animal.</p> <p><b>Seasonal Change</b><br/>How does the weather change from autumn to winter and winter to spring?</p> |  | <p>Living things<br/>Woodland animals and animal habitats<br/>Observe living things in immediate environment and discuss the similarities and differences.</p> <p><b>Seasonal Change</b><br/>How does the weather change from spring to summer?</p>                             |   |
| <b>Year 1/2</b> | <p><b>Everyday Materials</b><br/>What are the advantages and disadvantages of some materials?<br/>Identify and group materials based on their properties.</p>   | <p><b>Everyday Materials</b><br/>How can I choose what materials to use for a purpose?<br/>Investigate which materials are best for a specific purpose.</p>   | <p><b>Living things and their habitats inc plants</b><br/>How do we know is something is dead or alive?<br/>Investigate and explain how we know if something is alive or dead.</p>  | <p><b>Living things and their habitats inc plants</b><br/>How are habitats suitable for different animals?<br/>Identify why an animal or plants is best suited to its habitat.</p>                   | <p><b>Seasonal Change</b><br/>Why is weather different in different seasons?<br/>Explain when the weather is cold/warm and how this impacts living things.</p>  | <p><b>Animals, including humans</b><br/>What do animals need to survive?<br/>Why do we need to keep healthy?<br/>Identify factors helping animals survive and compare to humans.</p>  |
| <b>Year 3/4</b> | <p><b>Teeth and Digestion</b><br/>What is the purpose of the digestive system?<br/>How can we protect our teeth?<br/>Identify the names of the digestive organs and teeth and their functions.</p>                                | <p><b>Teeth and Digestion</b><br/>Can I identify the type of animal by its teeth?<br/>What is a food chain?<br/>To understand what a food chain is and to identify and construct them.</p>  | <p><b>Electricity</b><br/>How do we use electricity in everyday life?<br/>Why do we need electricity?<br/>Identify and investigate how we use electricity and how it is created.</p>  | <p><b>Electricity</b><br/>How can I use electricity to power a circuit?<br/>Investigate how to use electricity to power different components.</p>  | <p><b>Forces and Magnets</b><br/>How can I change the speed of a force?<br/>How do we use magnets in everyday life?<br/>Investigate friction and the impact on a force. Investigate how magnets work.</p>   | <p><b>Plants</b><br/>How do plants function?<br/>Investigate what plants need to survive. Identify the lifecycle of a plant in detail through pollination, seed formation and seed dispersal.</p>   |
| <b>Year 5/6</b> | <p><b>Living things and their habitats</b><br/>How can we classify insects, birds and plants?<br/>Investigate how to classify various living things and to also identify then using a classification key.</p>                     | <p><b>Animals, including humans</b><br/>What is involved in the human circulatory system and what are their functions?<br/>How does our lifestyle impact our bodies?<br/>Investigate how the choices we make in our lifestyle impact on our body.</p> | <p><b>Evolution and inheritance</b><br/>How have living things changed over time?<br/>How are offspring similar and different to their parents?<br/>Investigate how living things have changed over a period of time. Observe and describe how offspring are different to their parents.</p>  | <p><b>Light</b><br/>How can we see light?<br/>Can we bend light, or does it always travel in a straight line?<br/>Investigate how light travels in straight lines. Investigate how we see light.</p> | <p><b>Electricity</b><br/>How do we use symbols to represent a circuit?<br/>How can I alter a circuit to make some components work better?<br/>Identify different symbols that represent the parts of a circuit to draw a diagram. Investigate how circuits can be changed.</p> | <p><b>Electricity</b><br/>How can I create a circuit for a purpose?<br/>How does voltage affect the circuit?<br/>Investigate how a change in voltage affects a circuit. Investigate how to create a circuit for a purpose such as an alarm.</p> |



**Brookside School - Long Term Plan - Science Cycle 2**  
(Refer to subject progression documents for a more in-depth overview)

|                 | Autumn 1  | Autumn 2  | Spring 1   | Spring 2   | Summer 1   | Summer 2  |
|-----------------|---|---|--|--|--|---|
| <b>EYFS</b>     | <p><b>Seasonal Change</b><br/>How does it become dark at night and light in the day?<br/><i>Identify how the Earth orbits the sun and this causes day and night.</i></p> <p>**Seasonal change is visited throughout the year.</p> | <p><b>Everyday Materials</b><br/>How are materials different? What can we use hard or soft materials for?<br/><i>Investigate materials in their environments and describe similarities and differences.</i></p>                                 | <p><b>Lifecycle and plants</b><br/>How are plants similar and different? What is a lifecycle?<br/><i>Observe and investigated the similarities and differences of plants and animals. Discuss the life cycle of an animal.</i></p> <p><b>Seasonal Change</b><br/>How does the weather change from autumn to winter and winter to spring?</p> |  | <p>Living things<br/>Woodland animals and animal habitats<br/><i>Observe living things in immediate environment and discuss the similarities and differences.</i></p> <p><b>Seasonal Change</b><br/>How does the weather change from spring to summer?</p> |   |
| <b>Year 1/2</b> | <p><b>Everyday Materials</b><br/>How can I group materials based on their properties?<br/><i>Identify a variety of objects by their material, group them based on their properties.</i></p>                                       | <p><b>Seasonal change</b><br/>Why is the weather different in different parts of the year?<br/><i>Describe the weather in different parts of the year and understand the key features of each season.</i></p>                                   | <p><b>Animals, including humans</b><br/>What is the difference between a variety of animals?<br/>What are the names given to different animals?<br/><i>Identify similarities and differences of animals.</i></p>   | <p><b>Animals, including humans</b><br/>What are the senses and which parts of our body do they associate with?<br/><i>Identify the different body parts that link to the senses and name offspring that matches the adult.</i></p>                    | <p><b>Plants</b><br/>How can I identify a tree by its leaf?<br/>What are the parts of a plant?<br/><i>Investigate different leaves linking to trees. Name 4 different parts of a plant. Link to Cycle 1 Spring 1/2.</i></p>                                | <p><b>Plants</b><br/>How do bulbs and seeds grow into plants?<br/>What do plants need to grow?<br/><i>Observe and investigate how seeds and bulbs grow into plants. Identify what plants need to grow.</i></p>              |
| <b>Year 3/4</b> | <p><b>Light</b><br/>Why do we need light to see? How are shadows created?<br/><i>Recognise that we need light to see and it is reflected off surfaces. Investigate how shadows are created.</i></p>                               | <p><b>Nutrition and growth</b><br/>Why do animals and humans need nutrition?<br/>What are the functions of our skeletons and muscles?<br/><i>Identify why animals and humans need nutrition and investigate the function of our bodies.</i></p> | <p><b>Rocks</b><br/>How are rocks similar and different?<br/><i>Investigate different rocks based on their appearance and properties. Understand that soils are made from rocks and organic matter.</i></p>  | <p><b>States of matter</b><br/>What is a solid, liquid or gas? How can I turn a liquid into a solid?<br/><i>Identify different states of matter. Conduct experiments of changing the states. Look at the water cycle.</i></p>                          | <p><b>Sound</b><br/>How is a sound created? How can sound become louder or quieter?<br/><i>Understand that sounds are vibrations that travel through a medium to the ear. Investigate loud and quiet sounds.</i></p>                                       | <p><b>Living things and their habitats</b><br/>How can we group living things? What is a classification key and how can I use it?<br/><i>Group living things together, use classification keys to identify animals.</i></p> |
| <b>Year 5/6</b> | <p><b>Forces</b><br/>How does a force work?<br/><i>Investigate what a force is and how it works, link to the Earth and gravity.</i></p>   | <p><b>Earth and Space</b><br/>How does Earth move? What affect does the moon have on Earth?<br/><i>Identify how the Earth orbits the sun and the moon orbits the Earth. Investigate how the moon affects the Earth.</i></p>                     | <p><b>Properties and changes of materials</b><br/>How are everyday materials similar and different?<br/><i>Investigate how a variety of everyday materials can be grouped together based on their properties.</i></p>  | <p><b>Properties and changes of materials</b><br/>Can mixtures be separated? Are all changes reversible?<br/><i>Identify and investigate how to split mixtures based on knowledge of solids, liquids and gasses. Investigate changes of state.</i></p> | <p><b>Living things and their habitats</b><br/>Do life cycles differ in mammals, amphibians, insects and birds?<br/><i>Investigate how life cycles are similar and different in mammals, amphibians, insects and birds.</i></p>                            | <p><b>Animals, including humans</b><br/>How do our bodies change throughout childhood and adulthood?<br/><i>Identify physical changes of the body throughout childhood to adulthood.</i></p>                                |