



# Bradwell Village School

## Science Annual Overview



Autumn			
Year Three	Year Four	Year Five	Year Six
<p><b><u>Plants</u></b> An introduction to the relationship between structure and function: the idea that every part has a job to do. A focus on the role of the roots and stem in nutrition and support, leaves for nutrition and flowers for reproduction.</p> <p><b><u>Light</u></b> Explore what happens when light reflects off different materials. How shadows are formed and the importance of protecting eyes from bright lights.</p>	<p><b><u>Sounds</u></b> Explore and identify the way sound is made through vibration and find out how the pitch and volume of sounds can be changed.</p> <p><b><u>States of matter</u></b> Explore a variety of everyday materials and develop simple descriptions of the states of matter.</p>	<p><b><u>Living things and their habitat</u></b> Study and raise questions about their local environment throughout the year. Observe life-cycle changes in a variety of living things and find out about different types of reproduction.</p> <p><b><u>Properties and changes of materials</u></b> Explore and compare the properties of a broad range of materials including reversible and irreversible changes.</p>	<p><b><u>Evolution and their inheritance</u></b> To find out more about how living things on earth have changed over time. Learn that characteristics are passed from parents to their offspring, and that variation in offspring over time can make animals more or less able to survive in particular environments.</p>

Spring			
Year Three	Year Four	Year Five	Year Six
<p><b><u>Forces and magnets</u></b> Observe that magnetic forces can act without direct contact and explore different magnets.</p>	<p><b><u>Living things and their habitats</u></b> Raise and answer questions that help them to identify and study plants and animals in their habitat. How habitats change throughout the year. Explore ways of grouping living things.</p> <p><b><u>Animals including humans</u></b> Introduce the main body parts associated with the digestive system and explore questions that help to understand their special functions.</p>	<p><b><u>Earth and space</u></b> Explain how day and night occur. Learn that the Sun is at the centre of our solar system and what a moon is.</p>	<p><b><u>Living things and their habitat</u></b> Learn about hoe living things can be grouped and that broad groupings, such as micro-organisms, plants and animals can be subdivided. Discuss reasons why things are placed on one group and not another.</p> <p><b><u>Light</u></b> Explore the way that light behaves, including light sources, reflection and shadows.</p>

Summer			
Year Three	Year Four	Year Five	Year Six
<p><b><u>Animals including humans</u></b> Discover the importance of nutrition and an introduction to the main body parts associated with the skeleton and muscles, finding out how different parts of the body have special functions</p> <p><b><u>Rocks</u></b> Observe rocks and explore how and why they might have changed over time. Identify and classify rocks. Explore different soils.</p>	<p><b><u>Electricity</u></b> Construct simple series circuits and use them to create simple devices. Draw the circuit as a pictorial representation.</p>	<p><b><u>Animals including humans</u></b> Learn about the changes experienced in puberty.</p> <p><b><u>Forces</u></b> Explore falling objects and learn about the effects of air resistance. Experience forces that make things begin to move, get faster or slow down. Pupils should explore the effects of friction on movement.</p>	<p><b><u>Animals including humans</u></b> Learn about the main body parts and internal organs, and answer questions that help them to understand how the circulatory system enables the body to function. Learn how to keep their bodies healthy and how their bodies might be damaged.</p> <p><b><u>Electricity</u></b> Construct simple series circuits, to help answer questions about what happens when different components are used. Learn how to represent a simple circuit in a diagram using recognised symbols.</p>