

Long Term Plan: Science Key Stage 2 / Year 5



Autumn	Spring	Summer
<p>Earth and space Pupils learn about past theories on the shapes of the planets and use evidence to explain how we now know they are spherical. They look in greater depth at our Solar System; learning the names and order of the planets (including creating their own Solar System art). Pupils also learn about the rotation and orbit of the Earth and how this gives us night and day and our seasons. They investigate the different time zones and learn the history behind how they were created. Pupils learn about the Moon and discover: its movement and why the Moon we see from Earth changes; the Space race and the Moon landings; what the surface of the moon is like and how it became that way</p>	<p>Properties and changes of materials Pupils learn about the properties of different types of materials (such as magnetic, reflective, permeable and transparent) and how to compare materials using these properties. They also learn about thermal and electric insulators and conductors, dissolving, separating mixtures and changes that are irreversible. Pupils enjoy a wide range of hands-on experiments as they use their scientific skills to investigate the properties of, and changes to, different materials.</p>	<p>All living things and their habitats Pupils investigate the life cycles of mammals, insects, amphibians and birds. Using their knowledge, they compare and contrast these life cycles. They also learn about the life process of reproduction in some plants and animals. Pupils also learn about the renowned scientist Jane Goodall and her work with chimpanzees.</p>
<p>Forces Pupils learn about how forces impact the world in which we live. They learn about balanced and unbalanced forces and how forces are necessary for objects to move. Pupils explore through exciting investigations the forces of gravity, air resistance, water resistance and friction.</p>		<p>Animals including humans Pupils learn to describe the changes as humans develop to old age. Pupils will understand the stages of growth and development and create a timeline to indicate these stages. They learn about the changes experienced during puberty.</p>