

Long Term Plan: Science Key Stage 2 / Year 6



Autumn	Spring	Summer
<p>Light</p> <p>Pupils investigate how we see natural and manmade sources of light and how mirrors work, moving on to learn about refraction and the light spectrum through exciting experiments. They also learn about Isaac Newton and his contribution to understanding how light enables us to see colours. Pupils learn about shadows and how they are the same shape as the object that casts them.</p>	<p>Electricity</p> <p>Pupils learn about where electricity (both static and current) comes from as well as the key dates and individuals from the history of electricity (Einstein, Humphry Davy, Thomas Edison, Nikola Tesla etc). They are given the opportunity to explore why electricity is so important and what our lives would be like without it. Pupils learn the correct scientific symbols that are used in drawing circuits and then design and create their own electrical circuits with lights, switches and buzzers.</p>	<p>Evolution and inheritance</p> <p>Pupils explore the key features of evolution and what evidence scientists have of evolution through fossils. They learn the science behind how humans have evolved.</p>
<p>Animals including humans</p> <p>Pupils learn all about the circulatory system, blood and the heart - including the different chambers of the heart and how blood is pumped through the body to the different organs. They learn about the importance of diet and exercise in maintaining a healthy lifestyle as well as the dangers of drugs and alcohol and their impact on the human body.</p>	<p>Living things and their habitats</p> <p>Pupils learn about the characteristics of different animals and how these characteristics enable the animals to live in their environment. They use these characteristics to classify animals based on their similarities and differences. Pupils learn about microorganisms and how they can be helpful or harmful.</p>	