

Long Term Curriculum Coverage

Class	Subject
Oak	Science



Autumn 1	Autumn 2
<p style="text-align: center;">Light How we see</p> <p>To recognise that light appears to travel in straight lines.</p> <p>To use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.</p> <p>To explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.</p>	<p style="text-align: center;">Living things and their habitats Illustrating lifecycles</p> <p>Children will look at the sexual and asexual reproduction in plants and flowers.</p> <p>The life cycles of mammals, birds, insects and amphibians.</p> <p>Contrasting life cycles and how to become a scientist.</p>
Spring 1	Spring 2
<p style="text-align: center;">Electricity</p> <p>Children will be able to recognise the main circuit symbols and use them to conduct investigations. Explain the effects of increasing or decreasing voltage on different parts of a circuit. Conduct investigations whilst controlling levels of voltage.</p>	<p style="text-align: center;">Animals including Humans</p> <p>Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</p> <p>Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>Describe the ways in which nutrients and water are transported within animals, including humans</p>
Summer 1	Summer 2
<p style="text-align: center;">Evolution and Inheritance</p> <p>Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</p> <p>Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</p> <p>Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution</p>	<p style="text-align: center;">Materials and their properties/Forces/Earth and Space/Revision</p> <p>Children will look at properties of materials, dissolving and reversible and irreversible changes.</p> <p>They will identify and explain the different forces acting on objects. Explain how increase air resistance and Newton's role in discovering gravity. They will understand how night and day occur, name the planets in the solar system and explain how they orbit the sun. They will know that the moon orbits earth.</p>