

## Knowledge Progression

	Biology		Physics			Physics strand
Year 1	<p style="text-align: center;"><b><u>Plants</u></b></p> <ul style="list-style-type: none"> <li>-Identify and name common plants.</li> <li>- Basic structure of a plant.</li> <li>- Plant life cycles</li> <li>- Identifying trees</li> <li>- Uses of plants in everyday life</li> <li>- How do plants survive</li> </ul>		<p style="text-align: center;"><b><u>Animals including humans</u></b></p> <ul style="list-style-type: none"> <li>- Label parts of the body</li> <li>- Senses</li> <li>- Identify and classify common animals</li> <li>- name and identify carnivores, herbivores, omnivores.</li> </ul>	<p style="text-align: center;"><b><u>Seasons</u></b></p> <ul style="list-style-type: none"> <li>-Characteristics of seasonal weather (4 seasons)</li> <li>-Length of daylight</li> </ul>		<p style="text-align: center;"><b><u>Materials</u></b></p> <ul style="list-style-type: none"> <li>-Identify and name everyday materials.</li> <li>- Describe physical properties of materials                             <ul style="list-style-type: none"> <li>- Recycling</li> </ul> </li> </ul>
Year 2	<p style="text-align: center;"><b><u>Plants</u></b></p> <ul style="list-style-type: none"> <li>- describe how seeds and bulbs grow into plants</li> <li>- plants need water/light/temperature</li> </ul>	<p style="text-align: center;"><b><u>Living Things and their Habitats</u></b></p> <ul style="list-style-type: none"> <li>- differences between living/dead/never alive</li> <li>- living things and habitats</li> <li>- name variety of plants and animals in habitats</li> <li>- simple food chains</li> </ul>	<p style="text-align: center;"><b><u>Animals including humans</u></b></p> <ul style="list-style-type: none"> <li>- know that animals have offspring</li> <li>- basic needs of animals</li> <li>- importance of exercise, good diet and hygiene</li> </ul>			<p style="text-align: center;"><b><u>Everyday materials</u></b></p> <ul style="list-style-type: none"> <li>- comparing suitability of materials</li> <li>- Identify, name materials and understand properties of materials</li> </ul>
Year 3	<p style="text-align: center;"><b><u>Plants</u></b></p> <ul style="list-style-type: none"> <li>-functions of a flowering plant.</li> <li>-What plants need for life and growth</li> <li>-Water transportation</li> <li>-life cycle of flowering plants</li> </ul>		<p style="text-align: center;"><b><u>Animals incl humans</u></b></p> <ul style="list-style-type: none"> <li>-The human body / other animals skeletons and muscles.</li> <li>-animals/ humans and nutrition.</li> </ul>	<p style="text-align: center;"><b><u>Light</u></b></p> <ul style="list-style-type: none"> <li>-Reflections.</li> <li>-Light in order to see</li> <li>-Sun safety</li> <li>-Shadows/ patterns in the size of a shadow.</li> </ul>	<p style="text-align: center;"><b><u>Forces</u></b></p> <ul style="list-style-type: none"> <li>-How things move</li> <li>-Magnets- attract/repel</li> <li>-compare/ group everyday materials-are they attracted to a magnet?</li> <li>- 2 poles</li> </ul>	<p style="text-align: center;"><b><u>Rocks</u></b></p> <ul style="list-style-type: none"> <li>-Compare and group rocks</li> <li>- How fossils are formed</li> <li>- soil and what it is made from.</li> </ul>

Year 4		<u><b>Living things and their habitats</b></u> - Classification keys - Changing environments. - Grouping living things	<u><b>Animals incl human</b></u> - The human body - Digestive system - Teeth and their functions - food chains	<u><b>Sound</b></u> - How sounds made. - Pitch - Volume - Sound travel	<u><b>Electricity</b></u> - Simple circuit. - Switches - Conductors and insulators - open and closed circuit	<u><b>States of Matter</b></u> - Classifying properties - States of matter- gas, solid and liquid - Changes of state
Year 5		<u><b>Living things and their habitats.</b></u> - Life cycles - Reproduction in plants and animals	<u><b>Animals including humans.</b></u> - Foetal development and gestation - Changes from birth to old age	<u><b>Earth and Space</b></u> - Spherical bodies - Movement of earth, moon and planets in relation to sun - Day and night	<u><b>Forces</b></u> - Gravity - Friction, air resistance, water resistance. - Mechanisms	<u><b>Properties and changes of materials</b></u> - Classifying properties of everyday materials - States of matter- how mixtures can be separated. - dissolving materials - uses of everyday materials - Changes resulting in the formation of new materials - reversible changes
Year 6	<u><b>Evolution and inheritance</b></u> - Living things change over time. - Offspring - Adaptations lead to evolution	<u><b>Living things and their habitats</b></u> - Characteristics and classification.	<u><b>Animals incl humans</b></u> - Circulatory system. - Diet, exercise, drugs and lifestyle -effect on body. - Nutrient and water transportation.	<u><b>Light</b></u> - Light travels in lines. - Light reflection. - Shadows.	<u><b>Electricity</b></u> - Circuit diagram (symbols) - Component variation. - Voltage increase within a circuit	