

**The Three Schools -KS2 Science Overview**

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	<p>Light</p> <ol style="list-style-type: none"> <li>1.Light and Dark</li> <li>2.Transparent and opaque surfaces</li> <li>3. Mirrors and reflection</li> <li>4. Shadows</li> <li>5. Finding patterns in changing shadows</li> </ol>	<p>Forces</p> <ol style="list-style-type: none"> <li>1. Forces (Gravity)</li> <li>2. Friction</li> <li>3. Magnet</li> <li>4. Magnetic Poles and Fields</li> <li>5. Investigating the strength of magnets</li> </ol>	<p>Rocks</p> <ol style="list-style-type: none"> <li>1.Sorting rocks</li> <li>2. How Rocks are Formed</li> <li>3. Permeability</li> <li>4. Fossils</li> <li>5. Soil</li> </ol> <p>Investigations</p>		<p>Animals Including Humans</p> <ol style="list-style-type: none"> <li>1. The Muscular System</li> <li>2. The Skeletal System</li> <li>3. The Nervous System</li> <li>4. Preparing to Eat</li> <li>5. The Digestive System</li> </ol>	<p>Plants</p> <ol style="list-style-type: none"> <li>1.Botany and Flowering Plants</li> <li>2. Requirements for life and growth</li> <li>3. Water transportation in plants</li> <li>4. Pollination in Flowering Plants</li> <li>5. Seed Dispersal</li> </ol>
Year 4	<p>Humans and Living Things</p> <ol style="list-style-type: none"> <li>1. Cells and Nutrients</li> <li>2. Teeth and Senses</li> <li>3. Digestion</li> <li>4. A Healthy Diet</li> <li>5. Vitamins and Minerals</li> <li>6.Food chains</li> </ol>		<p>States of Matter – Water Cycle</p> <ol style="list-style-type: none"> <li>1. States of Matter</li> <li>2. Evaporation</li> <li>3. Condensation</li> <li>4. Precipitation</li> <li>5. The Water Cycle</li> </ol>	<p>Electricity</p> <ol style="list-style-type: none"> <li>1. Electrical Safety</li> <li>2. Parts of a circuit</li> <li>3. Switches</li> <li>4. Thomas Edison and Lewis Latimer</li> <li>5. Investigating conductive and nonconductive materials</li> </ol>	<p>Sound</p> <ol style="list-style-type: none"> <li>1. What is sound?</li> <li>2. Speed of sound</li> <li>3. Qualities of sound – Pitch and Volume</li> <li>4. Human Voice</li> <li>5. Ears- how we hear</li> </ol>	<p>Animals and their Habitats</p> <p>Classification of Plants and Animals</p> <ol style="list-style-type: none"> <li>1. Introduction to classification</li> <li>2. Classes of vertebrates: Fish and Amphibians</li> <li>3. Classes of vertebrates: Reptiles, Birds and Mammals</li> <li>4. Classes of invertebrates: Insects, Arachnids and Molluscs</li> </ol>

					5. Classification
Year 5	<p>Forces</p> <ol style="list-style-type: none"> <li>1. Forces including gravity</li> <li>2. Air resistance, water resistance and friction</li> <li>3. Guided investigation: Paper Drop</li> <li>4. Guided investigation: Paper Drop</li> <li>5. Pulleys, gears and levers</li> </ol>	<p>Materials and Properties</p> <ol style="list-style-type: none"> <li>1. Properties of materials</li> <li>2. Which material is best?</li> <li>3. Solubility- which materials are most soluble/what solubility means</li> <li>4. Separating mixtures, sieving, filtering, evaporating</li> <li>5. Reversible changes dissolving, mixing, change of state</li> </ol>	<p>Space</p> <ol style="list-style-type: none"> <li>1. Life cycles of plants and animals in our local area</li> <li>2. Reproduction in Plants</li> <li>3. Life cycles of Mammals and Amphibians</li> <li>4. Life cycles of insects and birds</li> <li>5. The work of David Attenborough and Jane Goodall</li> </ol>	<p>Animals and Habitats (Changes from birth to old age)</p> <ol style="list-style-type: none"> <li>1. Human Growth Stages</li> <li>2. Adolescence and Puberty</li> <li>3. Slowing Down</li> <li>4. Growth in Humans and Animals</li> <li>5. Preparation for Assessment (research and scientific drawing)</li> </ol>	<p>Lifecycles</p> <ol style="list-style-type: none"> <li>1. Life cycles of plants and animals in our local area</li> <li>2. Reproduction in Plants</li> <li>3. Life cycles of Mammals and Amphibians</li> <li>4. Life cycles of insects and birds</li> <li>5. The work of David Attenborough and Jane Goodall</li> </ol>
Year 6	<p>Evolution and Inheritance</p> <ol style="list-style-type: none"> <li>1. Fossils and Evolution</li> <li>2. Inheritance</li> <li>3. Adaptation</li> <li>4. Charles Darwin</li> <li>5. Alfred Wallace</li> </ol>	<p>Electricity</p> <ol style="list-style-type: none"> <li>1. Simple Series Circuits</li> <li>2. Parallel Circuits</li> <li>3. Switches</li> <li>4. Planning an investigation</li> <li>5. Investigation</li> </ol>	<p>Animals Including Humans (Heart and Circulation, Impact of Diet, Transportation of Nutrients and Water around the body)</p> <ol style="list-style-type: none"> <li>1. The Heart: Circulation of the Blood</li> <li>2. Blood Vessels and Transport</li> <li>3. Components of Human Blood</li> <li>4. Blood Pressure and Heart Rate</li> <li>5. Heart Rate- an Investigation</li> </ol>	<p>Light</p> <ol style="list-style-type: none"> <li>1. How light travels</li> <li>2. How we see</li> <li>3. Shadows and their shapes</li> <li>4. The Colour of Light</li> <li>5. Making a periscope</li> </ol>	<p>Animals and their Habitats (Classification)</p> <p>Classification of Living Things</p> <ol style="list-style-type: none"> <li>1. Classifying organisms</li> <li>2. Cells: Plant and Animal cells</li> <li>3. Taxonomy</li> <li>4. Vertebrates</li> <li>5. Invertebrates</li> </ol>

