



# Dunchurch Boughton Church of England Junior Academy



## Science Curriculum Overview

<b>Year 3</b>	<b>The Human Body</b> 1. The Muscular System 2. The Skeletal System 3. The Nervous System 4. Nutrition 5. The Digestive System	<b>Cycles in Nature</b> 1. The Four Seasons 2. Seasonal Cycles in Plants 3. Life Cycle of a Plant 4. Animal Migration 5. Life Cycle of a Frog	<b>Rocks</b> 1. Sorting Rocks 2. How Rocks are Formed 3. Permeability 4. Fossils 5. Soil	<b>Forces and Magnets</b> 1. Forces (Gravity) 2. Friction 3. Magnet 4. Magnetic Poles and Fields 5. Investigating the Strength of Magnets	<b>Plants</b> 1. Botany and Flowering Plants 2. Requirements for Life and Growth 3. Water Transportation in Plants 4. Pollination in Flowering Plants 5. Seed Dispersal	<b>Light</b> 1. Light and Dark 2. Transparent and Opaque 3. Mirrors and Reflection 4. Shadows 5. Finding Patterns in Changing Shadows
<b>Year 4</b>	<b>The Human Body</b> 1. Cells and Nutrients 2. Teeth and Senses 3. Digestion 4. Preparing to Eat 5. Vitamins and Minerals	<b>Classification of Plants and Animals</b> 1. Introduction to Classification 2. Classes of Vertebrates: Fish and Amphibians 3. Classes of Vertebrates: Reptiles, Birds and Mammals 4. Classes of Invertebrates: Insects, Arachnids and Molluscs 5. Classification of Plants	<b>Ecology</b> 1. Living Things and Habitats 2. Natural Cycles 3. Web of Living Things 4. Air Pollution: A Human Threat to the Environment 5. Ecology in our Local Area	<b>Sound</b> 1. What is Sound? 2. Speed of Sound 3. Qualities of Sound – Pitch and Volume 4. Human Voice 5. Ears - How We Hear	<b>The Water Cycle</b> 1. States of Matter 2. Evaporation 3. Condensation 4. Precipitation 5. The Water Cycle	<b>Electricity</b> 1. Electrical Safety 2. Parts of a circuit 3. Switches 4. Thomas Edison and Lewis Latimer 5. Investigating Conductive and Non-Conductive Materials



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<b>Year 5</b>	<b>The Human Body</b> <ol style="list-style-type: none"> <li>1. Gestation and Infancy</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>	<b>Materials</b> <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>	<b>Living Things</b> <ol style="list-style-type: none"> <li>1. Life Cycles of Plants and Animals in Our Local Area</li> <li>2. Life Cycles of Mammals and Amphibians</li> <li>3. Life Cycles of Insects and Birds</li> <li>4. Reproduction in Plants</li> <li>5. The Work of David Attenborough and Jane Goodall</li> </ol>	<b>Forces</b> <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>	<b>Astronomy</b> <ol style="list-style-type: none"> <li>1. The Big Bang and the Expanding Universe</li> <li>2. Gravity</li> <li>3. Our Solar System</li> <li>4. The Moon</li> <li>5. Our Galactic Neighbourhood</li> </ol>	<b>Meteorology</b> <ol style="list-style-type: none"> <li>1. Meteorology and the Atmosphere</li> <li>2. The Ozone Layer</li> <li>3. Air Movement</li> <li>4. Cold and Warm Fronts</li> <li>5. Thunder and Lightning</li> </ol>
<b>Year 6</b>	<b>The Human Body</b> <ol style="list-style-type: none"> <li>1. The Heart: Circulation of the Blood</li> <li>2. Blood Vessels and Transport</li> <li>3. Blood Pressure and Heart Rate</li> <li>4. Heart Rate - An Investigation</li> <li>5. Heart Rate - An Investigation</li> </ol>	<b>Classification of Living Things</b> <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>	<b>Electricity</b> <ol style="list-style-type: none"> <li>1. Simple Series Circuits</li> <li>2. Voltage</li> <li>3. Switches</li> <li>4. Planning an Investigation</li> <li>5. Investigation</li> </ol>	<b>Light</b> <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>	<b>Reproduction</b> <ol style="list-style-type: none"> <li>1. Asexual Reproduction</li> <li>2. Sexual Reproduction in Non-Flowering Plants</li> <li>3. Sexual Reproduction in Flowering Plants</li> <li>4. Reproduction in Animals</li> <li>5. Growth Stages</li> </ol>	<b>Evolution</b> <ol style="list-style-type: none"> <li>1. Fossils</li> <li>2. Inheritance</li> <li>3. Adaptation</li> <li>4. Charles Darwin</li> <li>5. Alfred Wallace</li> </ol>