

		Emerald	Diamond	Topaz	Amethyst
<b>Science</b>	Materials	<ul style="list-style-type: none"> <li>• Everyday Materials</li> <li>• Natural materials</li> <li>• Human-made materials</li> <li>• Grouping materials</li> <li>• Properties of materials</li> <li>• Comparing and testing materials;</li> <li>• Naming everyday materials</li> <li>• Properties and uses of materials</li> </ul>	<ul style="list-style-type: none"> <li>• Rocks</li> <li>• Fossils</li> <li>• Soils</li> <li>• Testing properties of materials</li> </ul>	<ul style="list-style-type: none"> <li>• Classifying solids, liquids and gases</li> <li>• Unusual materials</li> <li>• Particle theory</li> <li>• Change of state</li> <li>• Melting, freezing, evaporation and condensation</li> <li>• States of water</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>
	Humans and Animals	<ul style="list-style-type: none"> <li>• Labelling body parts</li> <li>• Counting body parts</li> <li>• Similarities and differences in humans</li> <li>• Five senses – sight, hearing, touch, smell, taste</li> <li>• Senses and danger</li> <li>• Sensory loss and assistive tools</li> <li>• Sense of touch investigation</li> <li>• Animal Parts</li> <li>• Animals' body parts</li> <li>• Animal groups – amphibians, birds, fish, invertebrates, mammals, reptiles</li> <li>• Carroll and Venn diagrams</li> <li>• Pets</li> <li>• Carnivores, herbivores and omnivores</li> <li>• Earthworms</li> </ul>	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Taxonomy</li> <li>• Understanding and creating classification keys</li> <li>• Animal kingdom</li> <li>• Plant kingdom</li> <li>• Classifying new discoveries</li> <li>• Food and the Digestive System Producers and consumers</li> <li>• Ecosystems</li> <li>• Food chains and food webs</li> <li>• Changes in ecosystems</li> <li>• Digestive system</li> <li>• Teeth types – incisors, canines, premolars, molars</li> <li>• Teeth health and dental hygiene</li> </ul>	<ul style="list-style-type: none"> <li>• Classifying living things</li> <li>• Classification keys</li> <li>• Adaptation</li> <li>• Investigations</li> <li>• Bodily systems</li> <li>• Circulatory system – role and main parts</li> <li>• Heart – structure and function</li> <li>• Blood – components and functions</li> <li>• Blood vessels – structure and function Measuring heart rate</li> <li>• Proving a hypothesis</li> <li>• Heart rate investigation</li> <li>• Classifying food</li> <li>• Effects of smoking, alcohol and drugs Heart rate recovery investigation</li> <li>• Evolution and Inheritance - Five kingdoms, microorganisms and viruses Classifying fossils</li> <li>• Theory of evolution and evolutionary tree diagrams</li> <li>• Inheritance and variation – continuous and discontinuous variation</li> <li>• Natural selection and survival of the fittest</li> <li>• Adaptations in birds' beaks</li> </ul>

	Plants, Habitats and the Environment	<ul style="list-style-type: none"> <li>• Plant Parts</li> <li>• Wild and garden plants</li> <li>• Seasonal changes</li> <li>• Seeds and bulbs</li> <li>• Investigating leaves</li> <li>• Importance of plants</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Nutrition and Reproduction</li> <li>• Plant parts</li> <li>• Root systems</li> <li>• Stems</li> <li>• Water transport</li> <li>• Investigating leaves</li> <li>• Lifecycle of flowering plants</li> <li>• Flower parts</li> <li>• Researching pollination</li> <li>• Seed formation and dispersal</li> <li>• Variation in plant needs</li> <li>• Requirements of plants for growth and survival</li> <li>• Observations</li> </ul>	<ul style="list-style-type: none"> <li>• Water cycle</li> <li>• Habitats</li> <li>• Changing environments</li> </ul>	<ul style="list-style-type: none"> <li>• Adaptations in plants</li> <li>• Artificial selection</li> <li>• Testable hypothesis</li> </ul>
	Forces/ Electricity	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Pushing and pulling forces</li> <li>• Contact forces</li> <li>• Friction</li> <li>• Force meters</li> <li>• Bar charts</li> <li>• Non-contact forces</li> <li>• Magnetism</li> <li>• Magnetic attraction and repulsion</li> <li>• Magnetic fields</li> <li>• Magnetic properties</li> <li>• Magnetic Earth</li> <li>• Uses of friction and magnetism</li> </ul>	<ul style="list-style-type: none"> <li>• Sources of electricity</li> <li>• Electrical devices</li> <li>• Electrical components</li> <li>• Series circuits</li> <li>• Complete and incomplete circuits</li> <li>• Conductivity</li> <li>• Conductors and insulators</li> <li>• Wired plugs</li> <li>• Incandescent light bulbs</li> <li>• Future of electricity</li> </ul>	<ul style="list-style-type: none"> <li>• Series circuits</li> <li>• Circuit components</li> <li>• Recognised circuit symbols</li> <li>• Investigating circuit components</li> <li>• Electric current</li> <li>• Voltage</li> <li>• Researching cells and batteries</li> <li>• Investigating voltage changes</li> </ul>
	Light/Sound	<ul style="list-style-type: none"> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Light and Shadows</li> <li>• Light- Light sources and reflectors</li> <li>• Reflective and non-reflective materials</li> <li>• Sun safety and protection</li> <li>• Shadows</li> <li>• Opaque, transparent and translucent material</li> <li>• Changes in shadows;</li> </ul>	<ul style="list-style-type: none"> <li>• Sound facts</li> <li>• Investigating sound</li> <li>• Soundwaves</li> <li>• How we hear sounds</li> <li>• Muffling sound investigation</li> <li>• Volume and distance investigation</li> <li>• Changing the volume of sound investigation</li> <li>• Changing the pitch of sound investigation</li> <li>• Investigating sound further</li> </ul>	<ul style="list-style-type: none"> <li>• Light facts</li> <li>• How light travels</li> <li>• Light, sight and the human eye</li> <li>• Visible light</li> <li>• Perceiving colour</li> <li>• Shadows</li> <li>• Reflections</li> <li>• Plane, concave and convex mirrors</li> <li>• Measuring light</li> <li>• Refraction</li> </ul>

	Working scientifically	<ul style="list-style-type: none"> <li>• Identifying and classifying</li> <li>• Comparative test</li> <li>• Pattern seeking</li> <li>• Research.</li> <li>• Venn diagrams</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying and classifying</li> <li>• Pattern seeking</li> <li>• Comparative tests</li> <li>• Research</li> <li>• Observing changes over time</li> </ul>	<ul style="list-style-type: none"> <li>• Measuring temperature</li> <li>• Investigating melting</li> <li>• Line graphs</li> <li>• Researching melting and boiling points</li> <li>• Observing changes overtime</li> <li>• Identifying and classifying</li> <li>• Pattern seeking</li> <li>• Comparative test</li> <li>• Research</li> <li>• Grouping and Classifying</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying and classifying</li> <li>• Comparative test</li> <li>• Pattern seeking</li> <li>• Research</li> </ul>
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