

Science outcomes, Stage 1	Content
<p>Working Scientifically ST1-4WS 'investigates questions and predicts by collecting and recording data, sharing and reflecting on their experiences and comparing what they and other know'</p> <p>Physical World ST1-8ES 'Describe some of the observable changes that occur in the landscape'</p> <p>ST1-9ES 'identifies ways that people use science in their everyday lives to care for the environment and Earth's resources'</p> <p>Living World (Fossils Evidence) ST1-10LW 'describes external features, changes in and growth of living things'</p> <p>ST1-11LW 'describes ways in which different places in the environment provide for the needs of living things'</p> <p>Products ST1-16P 'describe a range of manufactured products in the local environment and how their different purposes influence their design'</p>	<p>Uses fieldwork to collect, obtain and share information. Represent their information in a variety of ways, including written and oral communication.</p> <p>Understand how long term changes occur on the Earth's surface as a result of erosion and weathering.</p> <p>Identifies common rocks and minerals and what we use them for at home and at school. How mining is carried out to be environmentally sensitive. How recycling aids in preserving non-renewable resources.</p> <p>Identify what types of organisms (plant, animal, fish etc) are represented by fossils.</p> <p>Identify the types of environments that different fossils may have lived in. What needs did the different organism have (eg what they ate, or where they grew).</p> <p>Find examples of how minerals and rocks are used in their everyday life and how recycling can aid in reducing harm to the environment.</p>
Science outcomes, Stage 2	Content
<p>Working Scientifically ST2-4WS 'investigates their questions and predictions by analysing collecting data, suggesting explanations for their findings, and communicating and reflecting on the processes undertaken'</p> <p>ST2-8ES 'Describes some observable changes over time on the Earth's surface that result from natural processes and human activity'</p> <p>Living World ST2-10LW 'describes that living things have life cycles, can be distinguished from non-living things and grouped, based on their observable features'</p> <p>Material World ST2-13MW 'identifies the physical properties of natural and processed materials, and how these properties influence their use'</p> <p>ST2-16P 'describes how products are designed and produced, and the ways people use them'</p>	<p>Uses a range of methods to record and present their observations and findings, which may or may include technology (ST2-5WT)</p> <p>How erosion, weathering, volcanic activity, earthquakes etc can affect and change the Earth's surface.</p> <p>Use fossil information to tell us about the environment the plants and animals lived in, how they grew, were born and what they ate. Identify and classify fossil life into groups based on the fossil evidence. The roles did these organisms have in the environment (prey/predator, food, scavenger)</p> <p>Identify the properties of ores and rocks and what and how we use them for. For example, how rock is used for road base, how concrete is made. How Earth's resources are used in everyday life.</p> <p>How non-renewable resources are recycled.</p>

	How products from mining are used in their school, home and local environment.
Science Outcomes, Stage 3	Content
<p>Working Scientifically ST3-4WS 'investigates by posing questions, including testable questions, making predictions and gathering data to draw evidence-based conclusions and develop explanations'</p> <p>Earth and Space ST3-9ES 'explains rapid change at the Earth's surface caused by natural events, using evidence provided by advances in technology and scientific understanding'</p> <p>Living World ST3-10LW 'describes how structural features and other adaptations of living things help them to survive in their environment'</p> <p>ST3-13MW 'describes how the properties of materials determine their specific purposes'</p>	<p>Collect data on minerals and fossils from primary and secondary sources using fieldwork. Work individual and collaboratively to pose questions and test theories. Collect, present and reflect upon findings from the fieldwork.</p> <p>How earthquakes (tsunamis), and volcanic eruptions occur. How we record and predict event such as Tsunamis, volcanic eruptions and earthquakes. The areas on Earth that are prone to geological disasters. How we can prepare for geological disasters.</p> <p>Observe how organisms changed and adapted over periods of time. Observe features that organisms used to protect themselves. Discuss features that organisms needed to adapt to a range of environments.</p> <p>Identify products from mining that they use in their everyday life. Learn how the properties of the product influence its use (copper as a conductor, gold for jewellery etc)</p>
Science Outcomes, Stage 5	Content
<p>Working Scientifically Conducting Investigations SC5-6WS 'undertakes first-hand investigations to collect valid and reliable data and information, individually and collaboratively'</p> <p>Processing and Analysing Data and Information SC5-7WS 'Processes, analyses and evaluates data from first-hand investigations and secondary sources to develop evidence based arguments and conclusions'</p> <p>Communicating SC5-9WS 'Presents science ideas and evidence for a particular purpose and to a specific audience, using appropriate language, conventions and representations'</p> <p>Earth and Space SC5-12ES 'Describes the changing ideas about the structure of the Earth, to illustrate how models, theories and laws are refined over time by the scientific community'</p> <p>SC5-15LW 'Explains how biological understanding has advanced through scientific discoveries, technological developments and the needs of society'</p>	<p>WS6 Collects data from a range of sources, including fieldwork either as individuals or as groups.</p> <p>WS7.1 Students present their data using a range of multimodal forms.</p> <p>WS9 Using multimodal texts and using appropriate scientific language and terms, present their findings and reflect on how they conform to their theories.</p> <p>ES2 Plate tectonics and the relationship to volcanic and earthquake activity over time. How developing theories and technologies have aided our understanding of how volcanic and earthquake activity occurs.</p> <p>LW4 Examine how the fossil record provides evidence of how present day organisms have evolved. How the fossil record can be used to determine the changes that have occurred over time.</p>