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<th>Term</th>
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<td>1</td>
<td>1 - 5</td>
<td>Living World - Responding, Maintaining, Surviving And Depending</td>
<td>• Multicellular organisms rely on coordinated and interdependent internal systems to respond to changes in their environment</td>
<td>• Experiment: Dissection</td>
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|      | 5 - 9| Chemical World - Atomic Theory                   | • Scientific understanding changes and is refined over time through a process of review by the scientific community  
• Identify that all matter is made of atoms which are composed of protons, neutrons and electrons  
• Investigate a range of types of important chemical reactions that occur in non-living systems and involve energy transfer | • Activity: Periodic Table of Elements  
• Activity: Drawing Atoms from Data                                                         | Written Assessment                                                                   |
| 2    | 1 - 5| Earth & Space - Global Patterns (Plate Tectonics) | • The theory of plate tectonics explains global patterns of geological activity and continental movement                                                                                                 | • Activity: Plate Tectonic Jig Saw                                                         |                                  |
|      | 5 - 9| Physical World - Electricity                     | • Scientific understanding of current electricity has resulted in technological developments designed to improve the efficiency in generation and use of electricity                                                                 | • Experiment: Constructing Circuits  
• Research: Technological Developments in Electricity Generation                           |                                  |
| 3 | 1 - 5 | Chemical World – Chemical Reactions | • Chemical reaction involve rearranging atoms to form new substances; during a chemical reaction mass is not created or destroyed | • Experiment: Investigating Different Types of Chemical Reactions  
• Worksheet: Word Equations |
|---|---|---|---|---|
| 5 - 9 | 5 - 9 | Physical World – Waves | • Energy transfer through different mediums can be explained using wave and particle models  
• Energy conservation in a system can be explained by describing energy transfers and transformations | • Activity: Optics Kit  
• Research: Scattering and Dispersion of Light |
| 4 | 1 - 5 | Living World – Ecosystems | • Conserving and maintaining the quality and sustainability of the environment requires scientific understanding of interactions within, the cycling of matter and the flow of energy through ecosystems | • Research: Feeding Relationships in Australia Ecosystems  
• Activity: Constructing Food Chains and Food Webs | Written Assessment |
| 5 - 9 | 5 - 9 | Skills | • Student research project involving a firsthand investigation | • Experiment: Fair Tests  
• Activity: Solving Scientific Problems | Power Point Presentation |