



## Unit Provision: KS3A and KS4A Science Curriculum Learning Journey 2021 – 2022

<b>Term 1</b>	Physics: Electricity	<ul style="list-style-type: none"> <li>- Recognises electrical/non-electrical objects</li> <li>- Simple circuits</li> <li>- Series circuits</li> <li>- Conductors and insulators</li> <li>- Measuring electricity</li> <li>- Static electricity</li> <li>- Electro magnets</li> </ul>
<b>Term 2</b>	Biology, Chemistry, Physics: Scientific Statistics	<ul style="list-style-type: none"> <li>- Carries out experiments</li> <li>- Observe and respond to change</li> <li>- Recording data and information</li> <li>- Collects results</li> <li>- Grouping and classification</li> <li>- Graphs and charts</li> <li>- Data analysis</li> </ul>
<b>Term 3</b>	Biology: Living Things and their Habitat	<ul style="list-style-type: none"> <li>- Animal grouping and classification</li> <li>- Attributes of habitats</li> <li>- Climate change</li> <li>- Environments and their changes</li> <li>- Reproduction of fauna and flora</li> <li>- Extinction</li> </ul>
<b>Term 4</b>	Chemistry: Identifying ions	<ul style="list-style-type: none"> <li>- To understand an ion is positively or negatively charged particle</li> <li>- Ion identification</li> <li>- Identify metal and non-metal ions in unknown solutions</li> <li>- Flame experimentation</li> <li>- To explore why the colours are different</li> <li>- To record and analyse results</li> </ul>
<b>Term 5</b>	Physics: Light	<ul style="list-style-type: none"> <li>- Light waves</li> <li>- Bending light</li> <li>- Light travel</li> <li>- Light refraction</li> </ul>
<b>Term 6</b>	Biology: Evolution, Adaptation and Inheritance	<ul style="list-style-type: none"> <li>- Similarities and differences</li> <li>- Characteristics</li> <li>- Sequencing events</li> <li>- Fossils</li> <li>- Change over time including adaptation</li> <li>- Metamorphosis</li> <li>- Hibernation</li> <li>- Extinction</li> <li>- Chromosomes, genes and DNA</li> </ul>

### **Big Ideas:**

To increase students overall understanding of how and why things work.

### **Individual Need:**

Students will access varying amounts of the big ideas content dependent on individual need.

