

**Year 8**

Subject: Science Subject Leader D Wilde

Holy Family

Catholic High School

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| **Key Learning Constructs to be developed over the academic year. – Core Knowledge** | **Scheme of Learning**  **Autumn Term** | **Scheme of Learning**  **Spring Term** | **Scheme of Learning**  **Summer Term** |
| BIOLOGY  Nutrition and healthy choices  Bioenergetics  Ecosystems  Inheritance  CHEMISTRY  The Periodic Table  Separating Techniques  Metals and Acids  The Earth  PHYSICS  Electricity  Sound  Light | **Part 1 HEALTH AND DIET**  **THE PERIODIC TABLE**  **Part 2**  **THE PERIODIC TABLE**  **ELECTRICITY** | **Part 3**  **BIOENERGETICS**  **SEPARATING TECHNIQUES**  **Part 4**  **SEPARATING TECHNIQUES**  **SOUND** | **Part 5**  **CLASSIFICATION, ECOLOGY AND INHERITANCE**  **METALS AND ACIDS**  **Part 6**  **METALS AND ACIDS**  **LIGHT**  **THE EARTH** |
| **Hinterland Knowledge** | **Real examples of the APPLICATION of the content studied (eg how specific drugs affect the body)** | **Real examples of the APPLICATION of the content studied (eg the development of the loudspeaker)** | **Real examples of the APPLICATION of the content studied (eg the naked mole rat and its adaptations)** |
| **Assessment: -Formative Techniques**  **-Summative Pieces** | Use of whiteboards, hinge questions, recall tests and questions | | |
| End of topic tests | End of topic tests | End of topic tests and End of Year Assessment |
| **Key Vocabulary** | Key Scientific terminology appropriate to each topic studied | Key Scientific terminology appropriate to each topic studied | Key Scientific terminology appropriate to each topic studied |
| **Key Skills** | Working Scientifically - relevant mathematical techniques (percentages, mean, mode, median, graph plotting, simple equations and their rearrangement etc) | Working Scientifically - relevant mathematical techniques (percentages, mean, mode, median, graph plotting, simple equations and their rearrangement etc) | Working Scientifically - relevant mathematical techniques (percentages, mean, mode, median, graph plotting, simple equations and their rearrangement etc) |