

**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 choicesBioenergeticsEcosystemsInheritanceCHEMISTRYThe Periodic TableSeparating TechniquesMetals and AcidsThe EarthPHYSICSElectricitySoundLight | **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) |