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| **Year 8 Curriculum Overview [2024-2025]**  **Science** | | | | | | |
| **Half term** | **Knowledge & Understanding** | | | **Literacy Skills**  **Opportunities for**  **developing**  **literacy skills** | **Employability Skills**  **[if any]** | **Assessment Opportunities** |
| **Composites** | **Components**  **[KEY concepts & subject specific vocab]** | **Formal Retrieval**  **[if any]** |
| **HT1** | 8 Periodic table | * Elements * Metals and non-metals * Groups and periods * Group 1 * Group 7 * Group 0 | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Audiologist * Optometrist * Seismologist | Formative  Assessment  Summative Assessment |
| **HT2** | 8 Structure and function of body systems | * Levels of organisation * Gas exchange * Breathing * Skelton * Joints and movement * Muscles and movement | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Dietitian * Nutritionist * Personal trainer * Medical careers | Formative  Assessment  Summative Assessment |
| **HT2** | 8 Sound | * Waves * Sound * Loudness and pitch * Detecting sound * Echoes and ultrasound * Light * Reflection * Refraction * The eye and the camera * Colour | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Audiologist * Ultrasound * Electrician * Photographer * Artist | Formative  Assessment  Summative Assessment |
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| **HT3** | 8 Earth | * The earth and its atmosphere * Sedimentary rocks * Igneous and metamorphic rocks * The rock cycle * The carbon cycle * Global heating * Climate change * Recycling | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Archaeologist * Historian * Climate scientist * Geologist | Formative  Assessment  Summative Assessment |
| **HT4** | 8 Health and lifestyle | * Food Groups/ Nutrients * Food tests * Healthy diet * Digestive system * Bacteria and enzymes in digestion * Drugs * Alcohol * Smoking | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Dietitian * Food Manufacturer * Doctor * Support worker | Formative  Assessment  Summative Assessment |
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| **HT5** | 8 Electricity and magnetism | * Charge * Circuits and current * Resistance * Components * Series and parallel circuits * Magnets and magnetic field * Electromagnets * Using electromagnets | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Electrician * MRI specialist * Scrapyard worker * National grid engineer | Formative  Assessment  Summative Assessment |
| **HT6** | 8 Ecosystem and adaptations | * Food chains * Food webs * Disruption to food chains and webs * Ecosystem * Competition * Adapting to change | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Key vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Ecologist * Zoologist * Safari host | Formative  Assessment  Summative Assessment |
| **Catholicity across the science curriculum** | Body systems- Body debate on the ethics of organ donations – Human dignity  Earth- Guiseppe Moscati Literacy articles around volcanoes and helping people- Common good  Health and lifestyle- Literacy article on Guiseppe Moscati- Diabetes/insulin link. -  Ecosystems- Biodiversity and fairtrade- Food sustainability project- Common home/subsidiarity/preferential opportunity for the poor | | | | | |