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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 NowMCQ 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
 | FormativeAssessmentSummative Assessment |
| **HT2** | 8 Structure and function of body systems | * Levels of organisation
* Gas exchange
* Breathing
* Skelton
* Joints and movement
* Muscles and movement
 | Do NowMCQ 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
 | FormativeAssessmentSummative Assessment |
| **HT2** | 8 Sound  | * Waves
* Sound
* Loudness and pitch
* Detecting sound
* Echoes and ultrasound
* Light
* Reflection
* Refraction
* The eye and the camera
* Colour
 | Do NowMCQ 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
 | FormativeAssessmentSummative 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 NowMCQ 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
 | FormativeAssessmentSummative Assessment |
| **HT4** | 8 Health and lifestyle  | * Food Groups/ Nutrients
* Food tests
* Healthy diet
* Digestive system
* Bacteria and enzymes in digestion
* Drugs
* Alcohol
* Smoking
 | Do NowMCQ 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
 | FormativeAssessmentSummative 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 NowMCQ 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
 | FormativeAssessmentSummative Assessment |
| **HT6** | 8 Ecosystem and adaptations  | * Food chains
* Food webs
* Disruption to food chains and webs
* Ecosystem
* Competition
* Adapting to change
 | Do NowMCQ 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
 | FormativeAssessmentSummative 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 goodHealth 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 |