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| **Year 9 Curriculum Overview [2024-2025]** **Science** |
|  **Autumn 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** | **Reactions** | * Chemical Reactions
* Word equations
* Oxidation reactions
* Decomposition reactions
* Using ratios
* Conservation of mass
* Exothermic and endothermic
 | Do NowMCQ  | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications

Scientific Careers* Zoologist
* Ecologist
* Lab technician
* Research scientist
 | FormativeAssessmentSummativeAssessment |
| **HT1/2** | **Biological Processes** | * Photosynthesis
* Leaves
* Plant minerals
* Aerobic respiration
* Atom Structure
* Anaerobic respiration
 | Do NowMCQ  | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications

Scientific Careers * Atomic Research
* Chemist
* Engineer
 | FormativeAssessmentSummativeAssessment |
| **Year 9 Curriculum Overview [2023-2024]****Science** |
| **Spring****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]** |
| **HT2** | **Light**  | * Light
* Reflection
* Refraction
* The eye and the camera
* Colour
 | Do NowMCQ  | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications

Scientific Careers* Sport Scientist
* National Grid
* Energy Conservationist
 | FormativeAssessmentSummativeAssessment |
| **HT3** | **Inheritance** | * Variation
* Continuous and discontinuous
* Inheritance
* Natural Selection
* Extinction
 | Do NowMCQ  | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications

Scientific Careers* Doctor
* Nurse
* Food development
* Counsellor
 | FormativeAssessmentSummativeAssessment |
| **Year 9 Curriculum Overview [2023-2024]** **Science** |
| **Summer** **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]** |
| **HT4** | **Motion and Pressure** | * Speed
* Motion graphs
* Pressure in gases
* Pressure in liquids
* Pressure on solids
* Turning forces
 | Do NowMCQ  | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications

Scientific Careers* Research Scientist
* Engineer
* Lecturer
 | FormativeAssessmentSummativeAssessment |
| **HT5** | **Metals and other materials** | * Metals and acids
* Metals and oxygen
* The reactivity series
* Metal displacement reactions
* Extracting metals
* Ceramics
* Polymers
* Composites
 | Do NowMCQ  | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications

Scientific Careers* Electrician
* National Grid
* Computer Hardware design
 | FormativeAssessmentSummativeAssessment |
| **HT6** | **Energy** | * Food and fuels
* Energy resources
* Energy adds up
* Energy and temperature
* Energy transfer: particles
* Energy transfer: radiation
* Energy transfer: forces
* Energy and power
 | Do NowMCQ | * Keyword and definition
* Subject language [Speak like a Scientist]
* Inclusive questioning
* Writing a method
* Write like a Scientist
* Comprehension/Extended reading
* Extract key points from texts
 | Personal Skills* Teamwork
* Problem solving
* Practical applications
 | FormativeAssessmentSummativeAssessment |
| **Catholicity Across the Science Curriculum** | Reaction- Combustion lesson – Impact on planet : Common GoodInheritance – Jerome Lejeune – lesson on down syndrome (designer baby link)Energy – Nuclear resources v renewable resources – debate: Common HomeMetals and Other Materials – Plastics: non biodegradable – lesson/ slides/ opinions : care for common home |