|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year 7 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** | 7 Introduction to Science | * Working Scientifically * Using equipment * Following a method * Working safely | Do Now | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety |  |
| **HT1** | 7 Particles and their behaviour | * Particles and their behaviour * Particle model * States of Matter * Density * Melting and Freezing * Boiling * More changes of State   Diffusion | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Synthetic Chemist * Materials Scientist | Formative Assessment Summative Assessment |
| **HT2** | 7 Forces | * Introduction to forces * Squashing and stretching * Drag forces and friction * Forces at distance * Balanced and Unbalanced Forces | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Engineer * Materials Scientist * NASA * Formula One Engineer | Formative Assessment Summative Assessment |
| **HT2** | 7 Cells | * Observing cells- Microscopes and Microscope Calculations * Plant and animal cells * Specialised Cells * Movement of substances * Unicellular organisms | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Microbiologist * Medical careers * Cell Biologist | Formative Assessment Summative Assessment |
| **HT3** | Atoms, Elements and Compounds | * Elements * Atoms * Compounds * Chemical formulae | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Chemist * Shampoo manufacturer * Atomic scientist | Formative Assessment Summative Assessment |
| **HT3** | Space | * The night sky (Celestial objects) * Solar system (Planets) * The Earth (season/days) * The moon (eclipses) | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Engineer * Materials Scientist * NASA * Formula One Engineer | Formative Assessment Summative Assessment |
| **HT4** | 7 Acids and Alkalis | * Acids and Alkalis * Indicators and pH * Neutralisation * Acid Strength * Making salts | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating * Attention to health and safety   Scientific Careers   * Chemist * Engineer * Atomic scientist | Formative Assessment Summative Assessment |
| **HT5** | 7 Reproduction and Variation | * Adolescence * Reproductive System and Organs (humans and plants) * Fertilisation and implantation in Humans * Development of a foetus * Menstrual Cycle * Effect of Maternal Lifestyle * Flowers and pollination * Fertilisation and germination * Seed Dispersal Mechanisms | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating   Scientific Careers   * Doctor * Nurse * Midwife * Paediatrician | Formative Assessment Summative Assessment |
| **HT6** | Separation techniques | * Pure substance * Mixtures * Solutions * Solubility * Filtration * Evaporation and distillation * Chromatography | Do Now  MCQ 1 | * Keyword and definition * Subject language [Speak like a Scientist] * Inclusive questioning * Writing a method * Write like a Scientist * Literacy Article * Keyword vocabulary sheet | Personal skills   * Thinking and problem solving * Working together and communicating   Scientific Careers   * Chemist * Engineer   Atomic scientist | Formative Assessment Summative Assessment |
| **Catholicity across the science curriculum** | **Particles and their behaviour** – Team work and participation in practical's, helping draw graphs and how science works skills – JeanBaptiste Dumas (Discover of atomic weight) CST values Subsidiarity, common good, participation  **Cells** – Stem cells debate and literacy task  **Space** – Literacy task on big bang, Georges Lernaitre (Invented big bang theory)  **Reproduction** – Sanity of life debate, human dignity and common good | | | | | |