Year 7 Curriculum Overview [2026-2027] 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		• 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	MCQ & Formative Assessment	• 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	MCQ - states of matter and particles 10 marks Formative Assessment – Changes of state, boiling pints and arrangement of particles 13 marks Summative Assessment – Particles and their Behaviour 30 marks

HT2	7 Forces	• Introduction to forces • Squashing and stretching • Drag forces and friction • Forces at distance • Balanced and Unbalanced Forces	MCQ, Formative Assessment & Summative Assessment	• 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	MCQ – Forces 10 marks Formative Assessment - Contact and non-contact forces and Hooke's Law 12 marks Summative Assessment - Term 1 assessment: Forces 30 marks + 20 marks reteach content from Particles
HT2	7 Cells	• Observing cells- Microscopes and Microscope Calculations • Plant and animal cells • Specialised Cells • Movement of substances • Unicellular organisms	MCQ & Formative Assessment	• 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	MCQ – organelles 10 marks Formative Assessment - Organelles, microscopes and specialised cells 9 marks Summative Assessment - Cells 30 marks

HT3	7 Atoms, Elements and Compounds	• Elements • Atoms • Compounds • Chemical formulae	MCQ, Formative Assessment	• 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	MCQ – Elements and compounds 10 marks Formative Assessment - Atoms, elements and compounds and periodic table 12 marks Summative Assessment - Term 2 assessment: Elements, Atoms and Compounds 30 marks + 15/20 marks reteach content from Cells

HT3	Space	• The night sky (Celestial objects) • Solar system (Planets) • The Earth (season/days) • The moon (eclipses)	MCQ & Formative Assessment	• 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	MCQ – Space 10 marks Formative Assessment - Graphs 6 marks Summative Assessment - Space 30 marks
HT4	7 Acids and Alkalis	• Acids and Alkalis • Indicators and pH • Neutralisation • Acid Strength • Making salts	MCQ, Formative Assessment	• 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	MCQ – pH 10 marks Formative Assessment - pH, indicators and making salts 10 marks Summative Assessment - Acids and Alkalis 30 marks

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	MCQ, Formative Assessment	• 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	MCQ – reproduction 10 marks Formative Assessment - Reproductive organs in plants and animals and contraception 10 marks Summative Assessment - Reproduction 30 marks
HT6	Separation techniques	• Pure substance • Mixtures • Solutions • Solubility • Filtration • Evaporation and distillation • Chromatography	MCQ, Formative Assessment, End of year test	• 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	MCQ – Separation techniques 12 marks Formative Assessment - Keywords and chromatography 15 marks Summative Assessment - Separation Techniques 30 marks End of year Test – review all topic previously covered

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