



Curriculum Journey 2025-2025

Subject: Trilogy Science (Year 10)

Exam board: AQA

Year 10	Half Term 1	Half term 2	Half Term 3	Half Term 4	Half term 5	Half Term 6
Topic	Bio – Unit 1– Transport in cells Bio - Unit 3 Disease (part 1) Chem – Unit 4 Reactivity of metals Chem – Unit 2 Bonding (part1) Physics – Unit 1 Particles of model Physics – Unit 3 Electrical circuits (part 1)	Bio – Unit 3 Disease (Part 2) Bio – Unit Transport in systems Chem – Unit 2 Bonding (part2) Chem – Unit 1 The periodic table Physics – Unit 3 Electrical circuits (part 2) Physics – Unit 3 Electricity in the home(part 1)	Bio – Unit 2 The digestive system (part 1) Chem – Unit 3 Quantitative chem Physics – Unit 3 Electricity in the home (part 2)	Bio – Unit 2 – The digestive system (part 2) Bio – Unit 4 – Bioenergetics (part 1) Chem – Acids and Bases Chem – Unit 5 Energy changes Physics – Unit 5 Atomic structure	Bio – Unit 4 – Bioenergetics (part 2) Bio – Unit 2 – Defence against disease (part 1) Chem – Using resources Chem – Chemical analysis Physics – Energy transfers (part 1)	Bio – Unit 2 – Defence against disease (part 1) Bio – The nervous system Chem – Chemistry of the atmosphere Physics – Energy transfers (part 2)
Vocabulary	Biology – Diffusion, Osmosis, Active transport, gradient, concentration, permeable Chemistry - covalent. Ionic, ions, metallic,	Biology - communicable, infectious, bacteria, virus, fungus, transmission, vector, toxin, antimicrobial, insecticide, cilia, mucus, lymphocyte,	Biology – digestion , substrate, product, active site, carbohydrase, protease, lipase, bile, soluble, insoluble oesophagus, neutralize, enzyme,	Biology – respiration, photosynthesis, limiting factor , metabolism , endothermic, deficiency, yield, synthesis Chemistry – displacement,	Chemistry - resources, finite, renewable, potable, sustainable, recycle, life cycle assessment, Physics - specific latent heat capacity, stores, internal, dissipation,	Biology – Nerves, sensory, relay, neurons, insulate, axon, synapse, neurotransmitter, reflex arc, effector, motor, impulse Chemistry - atmosphere,



	intermolecular, electrostatic, bonds, ions, properties, lattice, electrons, molecules, reactivity, oxidation, reduction, dilute, concentrated, extraction Physics - density, mass, volume, state, condensation, sublimation, kinetic, joules, electrons, series, parallel, resistance, ohms, conductor, voltage, current, potential difference, charge,	phagocyte, vaccination, antibody, antigen, antibiotic, resistance, painkiller, efficacy, placebo Chemistry - element, malleable, conductivity, compound, mass number, atomic number, transition, noble, halogens, alkali, diatomic molecule, trends	hypothesis, denature Chemistry – relativity, mass, mole, avogadro's constant, conservation of mass, thermal decomposition, reactants, products	oxidation, reduction, base, redox reaction, aqueous, hydroxide, ionized, neutralization, metabolism Physics – ions, atomic, proton, neutron, electron, isotopes, decay, nuclei, ionization, becquerel, half-life	conservation, kinetic, gravitational, elastic potential	carbon dioxide, nitrogen, methane, ammonia, greenhouse, deforestation, global warming, climate
Assessment	BIO/ PHY/CHEM End of unit exams Recall rallies	CHEM/ BIO/ PHY End of unit tests Recall rallies		BIO/ PHY/CHEM End of unit tests Recall rallies	BIO/CHEM/ PHY End of unit tests Recall rallies	
Links to prior learning	Bio – Cells – year 7 Digestion – year 8	Bio – nutrition – diseases – year 8 Smoking – year 8	Bio – nutrition and digestion – year 8 Physics – atoms – year 7	Bio – nutrition and digestion – year 8	Bio - year 8 Respiration and photosynthesis	Bio – Specialised cells – year 7



	Circulatory sys – year 8 Respiration – year 8 Photosynthesis – year 8 Specialised cells – yr 7 Chem - Atoms, elements and compounds – year 8	Bio – diffusion in cells unit – year 7 Chemistry – particle matter – year 7 Chem- periodic table – year 9 , atoms, elements and compounds – year 7 Physics- electrical circuits – year 9		Respiration and photosynthesis- year 9 Chem – acids and alkalis – year 8 Energy changes – year 8 Physics – energy – year 7	Chemistry – Earth and the atmosphere – year 9 – Physics – energy – year 7	Chemistry – Earth and the atmosphere – year 9 – Physics – energy – year 7
Catholic Social Teaching	The dignity of work and participation and solidarity : stem cell research - ensuring students understand the inherent dignity of all human life and Promotes global cooperation for the common good.	Respect for Life and option or the poor and The dignity of work and participation advancement in medical treatments in health care – i.e. vaccines Option for the Poor and Vulnerable- Highlights disparities in healthcare and the need for equitable access	Option for the Poor and Vulnerable- Informs strategies to combat hunger and malnutrition.	Common Good and Solidarity – discussing the uses of radiation and its adv and disadvantages	The option for the poor - medical advancements and the importance of ensuring access to healthcare for all, reflecting the principle of the "preferential option for the poor". Creation and the environment - Supports the call to use Earth's resources responsibly	Creation and the environment - emphasizing the responsibility to care for all creation and protect biodiversity. Common Good and Solidarity- Explore how scientific advancements can be used to address global challenges like climate change and poverty, promoting the common good and solidarity with those most vulnerable.



Careers and Personal Development links	Histology Microbiology Cytology Virology Chemical analyst Forensic science	Electrician Engineering Pharmacist	Radiographer Structural engineer Nuclear physicist	Nutritionist	Environmental scientist	Immunologist
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