



# HOLY TRINITY

## Secondary Science Vocabulary

Term	Y10 Biology	Y10 Chemistry	Y10 Physics	Y11 Biology	Y11 Chemistry	Y11 Physics
1a	<b>Biology unit 2: Organisation</b> Amylase Aorta Artery Vein Capillary Enzymes Lipase Lock and key Malignant tumour Organ systems Protease Pulmonary artery Pulmonary vein Risk factor	<b>Chemistry unit 2: Bonding</b> Electron Melting Evaporating Condensing Freezing Ionic Covalent Polymer Monomer Diamond Buckminster Fullerene Graphite Metallic Conduct  Triple only Nanoparticle Fine particle Course particle	<b>Physics unit 2: Electricity</b> Electron Potential Difference Current Resistance Ohmic Thermistor LDR Diode Series Components Parallel Components a.c. d.c. Electrical power Transformer National Grid  <b>Triple only</b> Static electricity Electric field	<b>Biology unit 7: Ecology</b> Habitat Community Interdependence Biotic Abiotic Adaptation Extremophile Carbon cycle Water cycle Quadrat Endangered Deforestation Peat Bog Global warming  <b>Triple only</b> Trophic level Biomass Decomposition Intensive farming Biotechnology	<b>Chemistry Unit 8: Chemical analysis</b> Pure Formulation Chromatography Rf value Mobile phase Stationary phase Solvent front  <b>Triple only</b> Flame test Precipitate Halide Flame emission spectroscopy Emission spectra	<b>Physics unit 6: Waves</b> Transverse Longitudinal Amplitude Wavelength Frequency Period Compression Rarefaction Electromagnetic Ultraviolet Infrared Refraction Leslie cube Sievert  <b>Triple only</b> Reflection Convex lens Concave lens Real image Virtual image Focal length Prism Dispersion Ultrasound Seismic

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1b	<b>Biology unit 2: Organisation (completed)</b>  Spongy mesophyll Statins Stent Translocation Transpiration Vein Vena cava Xylem Malignant Benign	<b>Chemistry unit 3 : Quantitative Chemistry</b> Equation Balanced Reactant Product Relative formula mass Conservation of mass Moles Solution Solute Solvent Concentration  Triple only Percentage yield Theoretical yield Atom economy	<b>Physics unit 3 :</b> <b>Density</b> Solid Liquid Gas Density Specific Heat Capacity Specific Latent Heat Internal Energy Fusion Vaporisation Pressure  <b>Triple only</b> Gas pressure Volume	<b>Biology Unit 5:</b> Nervous system Reflex action Glycogen Insulin Glucagon Diabetes Dialysis Menstrual cycle Oestrogen Progesterone FSH LH In vitro fertilisation Contraception <b>Triple only</b> Collecting duct Cerebral cortex Cerebellum Pituitary gland Medulla Hypothalamus Cornea Lens Optic nerve Iris Retina Ciliary muscle Myopia Hyperopia Auxins Ethene Gibberellin Germination Tropism	<b>Chemistry unit 9: Chemistry of the atmosphere</b> Evolution Atmosphere Limewater Photosynthesis Greenhouse gases Infrared radiation Global warming Carbon footprint Pollutant	<b>Physics unit 7: Magnetism and electromagnetism</b> Magnet Magnetic field Electromagnet Induced Solenoid Flemings left hand rule Motor effect Split ring commutator  <b>Triple only</b> Loudspeaker Generator effect Dynamo Microphone Transformer

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2a	<b>Biology</b> <b>Topic 3: Infection and Response</b> Antibiotics Communicable disease Gonorrhoea Human immunodeficiency virus (HIV) Malaria Measles Non-communicable disease Non-specific defence Pathogens Placebo White blood cell Clinical drug testing Double blind trial Preclinical drug testing Rose black spot Tobacco Mosaic Virus (TMV) Vaccination  <b>Triple only</b> Monoclonal antibodies Mimicry	<b>Chemistry unit 4 : Chemical changes</b> Oxidation Reduction Salt Neutralisation Base Strong acid Weak acid Electrolysis Electrolyte Cathode Anode Cryolite  <b>Triple only</b> Titration Mole	<b>Physics unit 4 Atomic structure</b> Proton Neutron Electron Atomic model Alpha Beta Gamma Penetrating Decay	<b>Biology unit 6: Inheritance, variation and evolution</b> Reproduction Asexual Sexual DNA Gene Genome Chromosome Polydactyl Cystic fibrosis Monohybrid cross Selective breeding Punnett square Genetic engineering Variation Evolution Natural selection Fossil Extinction Classification Resistance <b>Triple only</b> Sugar phosphate backbone Base Codon RNA Ribosome Speciation	<b>Chemistry unit 10: Using resources</b> Resources Potable water Desalination Sterilising Leibig condenser Screening Sedimentation Effluent Life cycle assessment Phytomining Bioleaching  <b>Triple only</b> Corrosion Sacrificial protection Alloy Thermosetting Thermosoftening Ceramic Polymer Composite Haber process Fertiliser Dynamic equilibrium	<b>Physics unit 8: Space</b>  <b>Triple only</b> Solar system Galaxy Planet Asteroid Universe Orbit Star Nebula Fusion Red giant White dwarf Supernova Satellite Red shift Big bang Doppler effect

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2b	<b>Biology</b> <b>Topic 4:</b> <b>Bioenergetics</b> Photosynthesis Chlorophyll Endothermic Limiting factor Pondweed Respiration Aerobic Anaerobic Metabolism Mitochondria Lactic acid Ethanol	<b>Chemistry Unit 5 :</b> <b>Energy changes</b> Exothermic Endothermic Combustion Reactant Products Reaction profile Activation energy Bond energy  <b>Triple only</b> Cell Battery Fuel cell	<b>Complete Physics</b> <b>unit 4 Atomic</b> <b>structure</b> Half life Contamination Irradiation Hazard Ionisation  <b>Triple only</b> Background radiation Smoke alarm Fusion Fission	<b>Biology revision</b> <b>schemes unit 1, 2,</b> <b>3, 4</b>	<b>Chemistry revision</b> <b>schemes unit 1,2,3,4</b>	<b>Combined</b> <b>Physics revision</b> <b>schemes unit</b> <b>1,2,3,4</b>

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3a	<p><b>Biology Unit 5: Homeostasis</b>  Homeostasis  Negative feedback  Endocrine system  Hormone  Gland  Nervous system  Reflex action  Sensory neurone  Motor neurone  Relay neurone</p> <p><b>Triple only</b>  Kidney  Antidiuretic hormone  Excretion  Dialysis  Loop of Henle  Glomerulus  Collecting duct  Cerebral cortex  Cerebellum  Pituitary gland  Medulla  Hypothalamus</p>	<p><b>Chemistry Unit 6 : Rate of reaction</b>  Rate of reaction  Concentration  Surface Area  Collision theory  Activation energy  Reversible reaction  Reactants  Products  Equilibrium  Le Chatelier's principle</p>	<p><b>Physics unit 5 : Forces</b>  Contact  Non contact  Vector  Scalar  Weight  Gravity  Extension  Work done  Energy</p> <p><b>Triple Only</b>  Moments  Lever  Gear  Pivot</p>	<p><b>Biology revision schemes unit 5, 7</b></p>	<p><b>Chemistry revision schemes unit 5,6,7</b></p>	<p><b>Combined Physics revision schemes unit 5,6</b></p>

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3b	<b>Biology Unit 5: Homeostasis (completed)</b> Glycogen Insulin Glucagon Diabetes Dialysis Menstrual cycle Oestrogen Progesterone FSH LH In vitro fertilisation Contraception  <b>Triple only</b> Cornea Lens Optic nerve Iris Retina Ciliary muscle Myopia Hyperopia Auxins Ethene Gibberellin Germination Tropism	<b>Chemistry unit 7 : Organic chemistry</b> Hydrocarbon Alkane Crude oil Fractional distillation Boiling point Viscosity Flammability Intermolecular forces Catalytic cracking Steam cracking Alkene Combustion  Triple only Alcohol Carboxylic acids Addition polymers Condensation polymers	<b>Physics unit 5 : Forces (completed)</b> Spring constant Compression Hooke's law Limit of proportionality Speed Acceleration Terminal velocity Newtons Law's Momentum  <b>Triple only</b> Collision Explosion System Fluid pressure			