



Order Form HSC Diagnostic Topic Tests

- *Biology – Year 11 & Year 12*
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Subject	Level	Test No.	Topics
Biology	Year 11	1	Cells as the Basis of Life: Cell Structure
		2	Cells as the Basis of Life: Cell Function
		3	Organisation of Living Things: Organisation of Cells/Nutrient and Gas Requirements
		4	Organisation of Living Things: Transport
		5	Biological Diversity: Effects of the Environment on Organisms/Adaptations
		6	Biological Diversity: Theory of Evolution by Natural Selection/Evolution – the Evidence
		7	Ecosystem Dynamics: Population Dynamics
		8	Ecosystem Dynamics: Past Ecosystems/Future Ecosystems
	Year 12	9	Heredity: Reproduction/Cell Replication
		10	Heredity: DNA and Polypeptide Synthesis/Genetic Variation/Inheritance Patterns in a Population
		11	Genetic Change: Mutation
		12	Genetic Change: Biotechnology/Genetic Technologies
		13	Infectious Diseases: Causes of Infectious Diseases/Responses to Pathogens
		14	Infectious Diseases: Immunity/Prevention, Treatment and Control
		15	Non-infectious Diseases and Disorders: Homeostasis/Causes and Effects
		16	Non-infectious Diseases and Disorders: Epidemiology/Prevention/Technologies and Disorders
Chemistry	Year 11	1	Properties and Structure of Matter: Properties of Matter/Atomic Structure and Atomic Mass
		2	Properties and Structure of Matter: Periodicity/Bonding
		3	Introduction to Quantitative Chemistry: Chemical Reactions and Stoichiometry/Mole Concept
		4	Introduction to Quantitative Chemistry: Concentration and Molarity/Gas Laws
		5	Reactive Chemistry: Chemical Reactions/Predicting Reactions of Metals
		6	Reactive Chemistry: Rates of Reactions
		7	Drivers of Reactions: Energy Changes in Chemical Reactions/Enthalpy and Hess's Law
		8	Drivers of Reactions: Entropy and Gibb's Free Energy
	Year 12	9	Equilibrium and Acid Reactions: Static and Dynamic Equilibrium/Factors that Affect Equilibrium
		10	Equilibrium and Acid Reactions: Calculating the Equilibrium Constant (K_{eq})/Solution Equilibria
		11	Acid/Base Reactions: Properties of Acids and Bases/Using Bronsted-Lowry Theory
		12	Acid/Base Reactions: Quantitative Analysis
		13	Organic Chemistry: Nomenclature/Hydrocarbons/Products of Reactions Involving Hydrocarbons
		14	Organic Chemistry: Alcohols/Reactions of Organic Acids and Bases/Polymers
		15	Applying Chemical Ideas: Analysis of Inorganic Substances
		16	Applying Chemical Ideas: Analysis of Organic Substances/Chemical Synthesis and Design
Physics	Year 11	1	Kinematics: Motion in a Straight Line
		2	Kinematics: Motion on a Plane
		3	Dynamics: Forces/Forces, Acceleration and Energy
		4	Dynamics: Momentum, Energy and Simple Systems
		5	Waves and Thermodynamics: Wave Properties/Wave Behaviour/Sound Waves
		6	Waves and Thermodynamics: Ray Model of Light/Thermodynamics
		7	Electricity and Magnetism: Electrostatics/Electric Circuits
		8	Electricity and Magnetism: Magnetism
	Year 12	9	Advanced Mechanics: Projectile Motion/Circular Motion
		10	Advanced Mechanics: Motion in Gravitational Fields
		11	Electromagnetism: Charged Particles, Conductors and Electric and Magnetic Fields/The Motor Effect
		12	Electromagnetism: Electromagnetic Induction/Applications of the Motor Effect
		13	The Nature of Light: Electromagnetic Spectrum/Light: Wave Model
		14	The Nature of Light: Light: Quantum Model/Light and Special Relativity
		15	From the Universe to the Atom: Origins of the Elements/Structure of the Atom/Quantum Mechanical Nature of the Atom
		16	From the Universe to the Atom: Properties of the Nucleus/Deep inside the Atom