

## Order Form VCE Diagnostic Topic Tests

Biology Units 1&2 and Units 3&4 tests are accredited to the end of 2021. All other tests are accredited to the end of 2022.

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† Please see reverse for list of topics

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Subject	Level	Test No.	Topics
<b>Biology</b>	1	1	Cell size, structure and function, and crossing the plasma membrane
	2	2	Energy transformations and functioning systems
		3	Survival through adaptations and regulation
		4	Organising biodiversity and relationships between organisms within an ecosystem
		5	The cell cycle, asexual reproduction and meiosis
	3	6	Sexual reproduction, cell growth and cell differentiation
		7	Genomes, genes, alleles, chromosomes and genotypes
		8	Phenotypes, pedigree charts, genetic cross outcomes and genetic decision-making
		1	Plasma membrane, nucleic acids and proteins
2		Gene structure and regulation, and structure and regulation of biochemical pathways	
4	3	Photosynthesis and cellular respiration	
	4	Cellular signals	
	5	Responding to antigens	
<b>Chemistry</b>	1	6	Immunity
		7	Changes in the genetic makeup of a population and changes in biodiversity over time
		8	Determining relatedness between species and human change over time
		9	DNA manipulation and biological knowledge and society
	2	1	Atomic theory and the Periodic Table
		2	Metallic and ionic compounds
		3	Covalently bonded compounds
		4	Organic compounds and polymers
		5	Quantifying chemistry
3	6	Properties of water	
	7	Acid-base and redox reactions in water	
	8	Analysing compounds in water I (solubility, concentration and gravimetric analysis)	
	9	Analysing compounds in water II (volumetric, spectroscopic and chromatographic analysis)	
4	1	Energy from fuels	
	2	Galvanic cells and fuel cells	
	3	Rate and extent of chemical reactions	
	4	Electrolysis	
5	5	Organic compounds and their reactions	
	6	Analysis of organic compounds	
	7	Food molecules	
	8	Metabolism and energy content of food	

Subject	Level	Test No.	Topics
<b>Physics</b>	1	1	How can thermal effects be explained? I
		2	How can thermal effects be explained? II
		3	How do electric circuits work? I
		4	How do electric circuits work? II
	2	5	What is matter and how is formed? I
		6	What is matter and how is formed? II
		7	How can motion be described and explained? I
		8	How can motion be described and explained? II
	3	1	How do things move without contact? (I)
		2	How do things move without contact? (II)
3		How are fields used to move electrical energy?	
4		How fast can things go? (I)	
5		How fast can things go? (II)	
4	6	How fast can things go? (III)	
	7	How can waves explain the behaviour of light? (I)	
	8	How can waves explain the behaviour of light? (II)	
	9	How are light and matter similar? (I)	
	10	How are light and matter similar? (II)	
	<b>Specialist Mathematics</b>	3&4	1
2			Complex numbers
3			Differentiation calculus
4			Integral calculus
5			Differential equations and Kinematics
6			Vectors
7			Vector calculus and Mechanics
8			Probability and Statistics
<b>Mathematical Methods</b>	3&4	1	Algebra and Polynomials
		2	Functions and Relations
		3	Exponential and Logarithmic Functions
		4	Circular Functions
		5	Differential Calculus and Applications
		6	Integral Calculus and Applications
		7	Discrete Random Variables
		8	Continuous Probability Distributions and Statistical Inference
<b>Further Mathematics</b>	3&4	1	Core: Data analysis
		2	Core: Revision and financial modelling
		3	Module 1: Matrices
		4	Module 2: Networks and decision mathematics
		5	Module 3: Geometry and measurement
		6	Module 4: Graphs and relations