Summative Assessment Planning Grid

Year 10 Biology			
	Summative Assessment 1 (Data for Progress Point 1)	**Summative Assessment 2 (Data for Progress Point 2)**	**Summative Assessment 3 (Data for Progress Point 3)**
Assessed Knowledge *What is the declarative (essential) knowledge that will be tested in this assessment?*	**Organising plants and animals** • Blood • Blood vessels • The heart • Problems with the heart • Breathing and gas exchange	Cells Transport in cells Organising Plants and Animals Cell division Communicable disease Ecology	Cells Transport in cells Organising animals and plants Cell division Communicable diseases Preventing and treating disease Non-communicable disease Photosynthesis Respiration Ecology
Assessed Skills *What are the procedural skills that will be tested in this assessment?*	Use models to understand organs and organ systems Critically evaluate these models e.g. bell jar model Observe blood vessels using a microscope Interpret graphs , data tables and charts on heart rate vs. exercise	Using a microscope Preparing a slide Calculating magnification Investigating osmosis Identifying variables in an investigation Calculating % change Drawing a graph Converting between mm, µm and nm Food tests Working aseptically Investigating photosynthesis	Understand scale and magnification Interpret tables, charts and graphs Calculate rates e.g. rate of photosynthesis Calculate % change in mass Plan and evaluate investigations

Method of Assessment	45-minute in-class test	Trial 1 Exam Triple Science 1hr15min Combined Science 1hr	
Dates of Assessment	Monday 10th November – Friday 21st November	Monday 16th March – Friday 27th March	

Summative Assessment Planning Grid

Year 10 Chemistry			
	Summative Assessment 1 (Data for Progress Point 1)	**Summative Assessment 2 (Data for Progress Point 2)**	**Summative Assessment 3 (Data for Progress Point 3)**
Assessed Knowledge *What is the declarative (essential) knowledge that will be tested in this assessment?*	Atomic Structure and the Periodic Table Bonding, Structure, and the Properties of Matter	Atomic Structure and the Periodic Table Bonding, Structure, and the Properties of Matter Quantitative Chemistry	Atomic Structure and the Periodic Table Bonding, Structure, and the Properties of Matter Quantitative Chemistry Chemical Changes Energy Changes
Assessed Skills *What are the procedural skills that will be tested in this assessment?*	Include the following: Interpreting atomic models and diagrams Using atomic number and mass number to calculate numbers of subatomic particles	Include the following: Using equations to calculate: • Relative formula mass • Moles • Concentration • Percentage yield • Atom economy	Include the following: Identifying products from electrolysis using observations Writing ionic equations Predicting outcomes of displacement reactions

	Using the periodic table to predict properties and trends Identifying patterns in reactivity from data Analysing experimental evidence for historical models (e.g., alpha scattering)	Rearranging equations Using experimental data to calculate reacting masses	Evaluating methods for making salts (filtration, crystallisation) Plotting temperature-time graphs Identifying exothermic/endothermic patterns Evaluating heat loss and suggesting improvements Calculating energy change using bond energies (HT)
Method of Assessment	In Class Assessment	Trial 1 Exam Triple Science 1hr15min Combined Science 1hr	
Dates of Assessment		Monday 16th March – Friday 27th March	

Summative Assessment Planning Grid

Year 10 Physics			
	Summative Assessment 1 (Data for Progress Point 1)	**Summative Assessment 2 (Data for Progress Point 2)**	**Summative Assessment 3 (Data for Progress Point 3)**
Assessed Knowledge *What is the declarative (essential) knowledge that will be tested in this assessment?*		**Energy:** • Energy stores and transfers • Insulation RQP (TS) • Efficiency & energy pathways • Renewable and non-renewable energy resources **Electricity** • Series and parallel circuits • I-V Characteristics • Power (general) (P=E/t) • Current (Q=It) • Potential difference (p.d.) (E=QV) • Electrical power (P=IV) • Resistance of a wire (V=IR) • Resistive heating (P=I^2R) • Alternating and direct potential difference • National Grid • Transformer power equation • Static (TS)	**Particle model of matter:** • Density • Density required practical • Particle model and density • Internal energy • Specific heat capacity • Specific heat capacity RQP • Specific latent heat • Particle motion in gases • Pressure in gases (TS) **Radioactivity:** • Alpha, beta, gamma and neutron decay • Penetration power • Nuclear decay equations • Half-life • Contamination and irradiation • Nuclear fission & fusion (TS) **Quantitative Energy:** • Work done

			• Power • Efficiency • Gravitational potential energy • Kinetic energy • Elastic potential energy
Assessed Skills *What are the procedural skills that will be tested in this assessment?*		Calculations Equations Graph drawing Models	Equations Calculations Graphs Models
Method of Assessment		Trial Exam Triple Science 1hr15min Combined Science 1hr	In class assessment: Triple Science 50min Combined Science 40min
Dates of Assessment		Monday 16th March – Friday 27th March	

Summative Assessment Planning Grid

Year 11 Biology			
	Summative Assessment 1 (Data for Progress Point 1)	**Summative Assessment 2 (Data for Progress Point 2)**	**Summative Assessment 3 (Data for Progress Point 3)**
Assessed Knowledge *What is the declarative (essential) knowledge that will be tested in this assessment?*	**Paper 1** • Cell structure and transport • Cell division • Organisation and the digestive system • Organising animals and plants • Communicable diseases • Preventing and treating disease • Non-communicable diseases • Photosynthesis • Respiration	**The human nervous system** • Structure and function of the nervous system • Relex actions • The brain (Triple) • The eye (Triple) **Hormonal coordination** • Principles of hormonal control • Control of blood glucose • Treating diabetes • Negative feedback • Human reproduction • The menstrual cycle • Artificial control of fertility • Infertility treatments • Plant hormones and responses (Triple) • Using plant hormones **Homeostasis in action (all triple only)** • Controlling body temperature • Removing waste products • The human kidney • Dialysis	

		• Kidney transplants **Adaptations, Interdependence and competition** • The importance of communities • Organisms in their environment • Distribution and abundance • Competition in animals and plants • Adaptations in animals and plants Organising an ecosystem • Feeding relationships • Materials cycling • Carbon cycle • Rates of decomposition (Triple) Biodiversity and ecosystems • Human population explosion • Land, water and air pollution • Deforestation and peat destruction • Global warming • Maintaining biodiversity • Trophic levels and biomass (Triple) • Biomass transfers (Triple) • Factors affecting food security (Triple) • Making food production efficient (Triple) • Sustainable food production (Triple)	
Assessed Skills			

What are the procedural skills that will be tested in this assessment?			
Method of Assessment	Trial 1 Exam	Trial 2 Exam	
Dates of Assessment	Monday 20th October - Friday 7th November 2025	Monday 9th February – Friday 27th February	

Summative Assessment Planning Grid

Year 11 Chemistry			
	Summative Assessment 1 (Data for Progress Point 1)	**Summative Assessment 2 (Data for Progress Point 2)**	**Summative Assessment 3 (Data for Progress Point 3)**
Assessed Knowledge *What is the declarative (essential) knowledge that will be tested in this assessment?*	Atomic Structure and the Periodic Table Bonding, Structure, and the Properties of Matter Quantitative Chemistry Chemical Changes Energy Changes	Atomic Structure and the Periodic Table Bonding, Structure, and the Properties of Matter Quantitative Chemistry Chemical Changes Energy Changes The Rate and Extent of Chemical Change Organic Chemistry Chemical Analysis	
Assessed Skills	Include the following:	Include the following:	

What are the procedural skills that will be tested in this assessment?	Identify independent, dependent, and control variables Write clear, step-by-step methods Choose appropriate equipment for accuracy and precision Predict outcomes using scientific ideas Record data in tables with correct headings and units Make clear qualitative observations (colour change, precipitate, gas, temperature change) Identify anomalies Use appropriate precision (e.g., 2 d.p. for burette readings)	Predict reaction outcomes Select the most appropriate method for a task Identify sources of error (random vs systematic) Suggest improvements to increase accuracy or reliability Evaluate strengths and weaknesses of a method	
Method of Assessment	Trial 1 Exam	Trial 2 Exam	
Dates of Assessment	Monday 20th October - Friday 7th November 2025	Monday 9th February – Friday 27th February	

Summative Assessment Planning Grid

Year 11 Physics			
	Summative Assessment 1 (Data for Progress Point 1)	**Summative Assessment 2 (Data for Progress Point 2)**	**Summative Assessment 3 (Data for Progress Point 3)**
Assessed Knowledge *What is the declarative (essential) knowledge that will be tested in this assessment?*	**Paper 1 content:** **Energy:** • Energy stores and systems • Energy equations • Power • Specific Heat Capacity • Insulation (TS) • Efficiency • Reducing unwanted energy transfer **Electricity** • Current • Potential Difference • Resistance • I-V Characteristics • Static (TS) • Series and Parallel Circuits • Thermistors and LDRs • Domestic Electricity • The National Grid **Particle Model of Matter**	**Paper 2 content:** **Forces:** • Scalars and vectors • Contact and non-contact forces • Speed, distance, time • Acceleration • Motion graphs • Hooke's Law **Waves:** • Transverse and Longitudinal Waves • The nature of waves • Electromagnetic Waves • Reflection (TS) • Refraction **Paper 1 content:** **Particle Model of Matter** • Particulate nature of matter • Changes of state • Specific Latent Heat	

	• Particulate nature of matter • Density • Changes of state • Specific Latent Heat • Specific Heat Capacity • Pressure in gases **Atomic Structure** • Development of the atomic model • Isotopes • Radioactivity • The nature of radiation • Half-life • Half-life graphs • Irradiation and contamination • Nuclear fission & fusion (TS)	• Specific Heat Capacity	
Assessed Skills *What are the procedural skills that will be tested in this assessment?*	Graph reading and drawing Equations Calculations Models Method writing	Graph reading and drawing Equations Calculations Models Method writing	
Method of Assessment	Trial Exam Triple Science 1hr15min Combined Science 1hr	Trial Exam Triple Science 1hr15min Combined Science 1hr	
Dates of Assessment	Monday 20th October - Friday 7th November 2025	Monday 9th February – Friday 27th February	