

Year 10 E	Year 10 Entry				
Term	Unit	Big Idea	Key Concepts	Suggested TADS (Teacher Devised Assessments)	
AUT	1	Biology: Human Body	Cells, tissues, organs, body systems, respiration, lifestyle, diseases, drugs, coordination, hormones, menstrual	Compare the energy released by burning a 'low fat' crisp with a normal one	
			cycle, fertility, contraception.	Investigate the effect of exercise on pulse rate Investigate the effect of caffeine drinks on pulse rate	
				Use pre-inoculated agar in Petri dishes to evaluate the effect of disinfectants and antibiotics	
	1	Biology: Human Body	Exam/TDA	Compare the speed of the catching reflex of two people.	
	2	Biology: Environment, evolution and Inheritance	Photosynthesis, adaptation, food webs, competition, evolution, reproduction, genetics	Investigate the rate of photosynthesis in pondweed Investigate the use of choice chambers, eg with	
SPR	2	Biology: Environment, evolution and Inheritance	Exam/TDA	woodlice or maggots	
				Compare the quality of water from different sources investigate whether or not two characteristics are linked	
	3	Chemistry: Elements, Compounds and Mixtures	Periodic table, chemical reactions, states of matter, separating mixtures, metals and alloys, polymers	substances	
SUM	3	Chemistry: Elements, Compounds and Mixtures	Exam/TDA	Compare the time needed to filter mixtures of water and calcium carbonate that have different particle sizes	
				Compare the properties, such as conductivity or density, of some metals	



				Compare the biodegradability of different polymers and other materials
	4	Chemistry: Chemistry in our World	Reactions with acids, acids and alkalis,	Investigate the amount of hydrogen produced when
			energy and rates of reactions, earth's	acids react with different metals
			atmosphere, Fuels and human impacts	
			on the atmosphere, water for drinking	Compare the amount of carbon dioxide in fresh air and
				exhaled air.
	4	Chemistry: Chemistry in our World	Exam/TDA	
				Investigate the amount of dissolved solids in water
				from different locations by evaporating samples and
				weighing residues.



Year 11 Entry					
Term	Unit	Big Idea	Key Concepts	Suggested TADS	
AUT	5	Physics: Energy, forces and the structure of matter		Investigate factors that affect the rate of cooling of a	
			Energy, energy transfers and energy	container of water, e.g. surface area, initial	
			resources, forces and work, speed and	temperature, types of insulation, colour of the container	
			stopping distances, atoms and nuclear		
			radiation	Investigate how different surfaces affect the amount of	
	5	Physics: Energy, forces and the structure of matter	Exam/TDA	friction on a moving block.	
				Investigate how the speed of a trolley changes as it rolls	
				down a slope.	
SPR	6	Physics: Electricity, magnetism and waves	Electrical Current, domestic electricity,	Investigate which materials are the best electrical	
			magnetism and electromagnetism,	conductors	
			different types of waves,		
			electromagnetic waves	Investigate factors that affect the strength of an	
	6	Physics:	Exam/TDA	electromagnet.	
				Testing visual acuity in different colours of light.	
				Investigate the range over which a Bluetooth device is	
				effective.	