

Year 10 Science - Overview of Content

Biology

	Autumn Term		Spring Term		Summer Term	
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Trilogy Double Award - Topic Overview	Cell division, Organisation and Digestive System	Organising plants and animals	Non-communicable diseases, Pant diseases	Photosynthesis, Respiration	Adaption, interdependence and competition
Assessment	End of topic tests (to include questions based on required practicals and maths skills) and/or assessed homework					
Separate Sciences - Topic Overview	Cell division, Organisation and Digestive System	Organising plants and animals	Non-communicable diseases, Pant diseases	Photosynthesis, Respiration	Adaption, interdependence and competition	Adaption, interdependence and competition
Assessment	End of topic tests (to include questions based on required practicals and maths skills) and/or assessed homework					

Chemistry

	Autumn Term		Spring Term		Summer Term	
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Trilogy Double Award - Topic Overview	Structure and bonding	Structure and bonding continued then chemical changes	Chemical changes continued	Organic chemistry	Energy changes
	Chemical bonds and properties of substances	Chemical bonds and properties of substances then reactivity of metals, acids and electrolysis	Reactivity of metals, acids and electrolysis	Carbon compounds as fuels and feedstocks	Exothermic and endothermic reactions	Chemical measurements, amount of substance and concentrations
Assessment	Structure and bonding assessed homework	Structure and bonding test	Chemical changes test	Organic chemistry test	Energy changes test	MOCK examination
Separate Sciences - Topic Overview	Structure and bonding	Structure and bonding continued then chemical changes	Chemical changes continued	Organic chemistry	Organic chemistry continued then energy changes	Energy changes continued then quantitative chemistry
	Chemical bonds and properties of substances (including bulk and surface properties)	Chemical bonds and properties of substances then reactivity of metals, acids and electrolysis	Reactivity of metals, acids and electrolysis	Carbon compounds as fuels and feedstocks, alkenes and alcohols and polymers	Alcohols and polymers then exothermic and endothermic reactions and fuel cells	Fuel cells then chemical measurements, amount of substance, concentrations, yield and atom economy
Assessment	Structure and bonding	Structure and bonding	Chemical changes test	Organic chemistry	Organic chemistry test	Energy changes test and

Physics

	Autumn Term		Spring Term		Summer Term	
	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Trilogy Double Award - Topic Overview	Forces basics	Acceleration equation	Stopping distance	Energy transfers	Reducing unwanted energy transfers
	Forces and their effects	Distance - time and velocity - time graphs	Momentum	Specific heat capacity	Energy transfer test	Internal energy and changes of state
Assessment	Forces 1 test, Speed equation	Terminal velocity and Newton's laws, Forces 2 test	Forces 3 Tests, Energy stores	Efficiency, Conduction and convection	Energy resources and their uses, Energy resources test	Specific latent heat and particle motion in gases, Particle model of matter test and MOCK examination
Separate Sciences - Topic Overview	Forces basics	Moments	Acceleration equation	Newton's laws	Stopping distance	Energy stores and transfers
	Forces basics test	Fluid pressure and upthrust	Distance - time and velocity - time graphs	forces 2 tests	Momentum	Specific heat capacity
Assessment	Hooke's law	Forces and their effects test	Terminal velocity		Car safety and momentum test	Conduction, convection and reducing unwanted energy transfers. Energy transfers test and MOCK examination