

YEAR 10 SEPARATE SCIENCE

	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY	CHRISTMAS HOLIDAY
Spring 1	Monday inset	Eukaryotes and prokaryotes	cell specialisation, differentiation and stem cells		microscopes - types and calculations	required practical: microscopes	
	chromosomes, mitosis and cell cycle	diffusion and osmosis (set up required practical)	osmosis and active transport (look at results)		required practical: chemistry of food	required practical: enzymes	
	C3.9 Bonding in metals	P5.4 Electrical currents and energy transfer	B8.1 photosynthesis	C3.11 Nanoparticles	B5.1/B5.2 Health, pathogens and disease	C3.10 Giant metallic structures	C3.12 Applications of nanoparticles
	ASSESSMENT	ASSESSMENT	B8.2 The rate of photosynthesis	B5.3 Growing bacteria in the lab	ASSESSMENT	C7.1 Exothermic and endothermic reactions	EXAM SKILLS
	ASSESSMENT ANALYSIS/FILLING GAPS	ASSESSMENT ANALYSIS/FILLING GAPS	Required practical: Photosynthesis	B5.4 Preventing bacterial growth	ASSESSMENT ANALYSIS/GAP FILLING	C7.2 Using energy transfers from reactions	EXAM SKILLS
	C4.1 Relative masses and moles	P5.5 Appliances and efficiency	B8.3/B8.4 How plants make glucose/use glucose	SKILLS	B5.5 Preventing infections	C7.3 Reaction profiles	EXAM SKILLS
	HALF TERM	HALF TERM	HALF TERM	HALF TERM	HALF TERM	HALF TERM	HALF TERM
Spring 2	C4.2 Equations and calculations	P7.1 Atoms and radiation	B8.4 Making the most of photosynthesis	B5.10/B5.11 More about plant diseases and responses	B5.6/B5.7/B5.8 Viral, bacterial, fungo and protists dieases	C7.4 Bond energy calculations	C4.4 The yield of a chemical reaction
	C4.3 From masses to balanced equations	P7.2 The discovery of the nucleus	B9.1/B9.2 Aerobic respiration/exercise	C4.7 titrations	B5.6/B5.7/B5.8 Viral, bacterial, fungo and protists dieases	B4.6 Organs and tissues in plants	C4.5 Atom economy
	C5.1 The reactivity series	P7.3 Changes in the nucleus	B9.3 Anaerobic respiration	Required practical: titrations	B5.9 Human defence responses	B4.6 Transpost systems in plants	C4.9 Volumes of gases
	EXAM SKILLS	EXAM SKILLS	B9.4 Metabolism and the liver	C4.8 titration calculations	EXAM SKILLS	EXAM SKILLS	C7.5 Chemical cells and batteries
	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT
	EASTER HOLIDAY	EASTER HOLIDAY	EASTER HOLIDAY	EASTER HOLIDAY	EASTER HOLIDAY	EASTER HOLIDAY	EASTER HOLIDAY
Summer 1	Easter Monday	ASSESSMENT ANALYSIS/GAP FILLING	C6.1 Introduction to electrolysis	B6.5 Making monoclonal antibodies	ASSESSMENT ANALYSIS/GAP FILLING	B4.8 Evaporation and transpiration	C7.6 Fuel cells
	ASSESSMENT ANALYSIS/GAP FILLING	P7.4 More about radiation	C6.2 Changes at the electrodes	B6.6 Uses of monoclonal antibodies	B6.1 Vaccinations	B4.9 Factors affecting transpiration	P7.6 Nuclear radiation in medicine
	May bank holiday	P7.5 Activity and half life	C6.3 The extraction of aluminium	EXAM SKILLS	B6.2 Antibiotics and painkillers	EXAM SKILLS	P7.7 Nuclear fission
	C5.2 Displacement reactions	P6.1 Density	C6.4 Electrolysis of aqueous solutions	EXAM SKILLS	B6.3 Discovering drugs	EXAM SKILLS	P7.8 Nuclear fusion
	C5.3 Extracting metals	Required practical: Density	REQUIRED PRACTICAL: electrolysis	EXAM SKILLS	B6.4 Developing drugs	EXAM SKILLS	P7.9 Nuclear issues

