

TERM	CONTENT AND SKILLS									
	YEAR 7	YEAR 8	YEAR 9	YEAR 10	YEAR II					
AUTUMN	Introduction to science Mixing, dissolving and separating Cells and reproduction Energy transfers or Elements, compounds and reactions Skills: planning experiments, using apparatus and how scientific theories develop over time PD: research, communication, observation	Introduction to science Plants and ecosystems Particles theory Electricity & magnetism or chemical changes Skills: Making hypotheses, identifying control variables, using apparatus to take measurements & observations and scientific calculations PD: communication skills	 Energy stores & transfers Chemical changes Cellular basis of life Waves Our Dynamic planet Skills: make comparative predictions and develop explanations. Explain the applications and implications of science. PD: Leadership, teamworking skills and resilience 	 Cell biology & bioenergetics Plant biology & Transport Atomic structure & the periodic table Structure, Bonding and properties of matter. Energy & Electricity Skills: recognise and use numbers in decimals & standard form. Use numbers in standard form. PD: Resilience, communication skills 	 Coordination & control Ecology in action Forces & Motion Waves Rates of reaction Organic chemistry The atmosphere Skills: drawing and interpreting graphs; using and rearranging equations. General exam techniques. PD: Data collection, Data analysis 					
SPRING	Energy transfers or Elements, compounds and reactions Diet, Digestion & Breathing or Forces Skills: Using apparatus and designing risk assessments; presenting observations or data in charts or graphs; and simple scientific calculations PD: data collection, data analysis	Electricity & magnetism or chemical changes Forces or Human body systems Skills: Evaluating data in terms of repeatability and reproducibility; the power and limitations of science and ethical issues; calculating mean & range PD: Data analysis, problem solving skills	Health & Disease Motion on Earth and in Space Chemical reactivity Atomic structure and the periodic table Skills: changing the subject of an equation, presenting reasoned explanations for results, learning about different sampling techniques. PD: research skills, data analysis	 Cellular transport Infection & response Digestion Energy changes in chemistry Chemical calculations Particle model of matter Radioactivity & the atom Skills: Using formulae and equations; understanding graphs. PD: research skills, communication skills 	Genetics, variation & evolution Electromagnetism Space (Triple science only) Chemical Analysis Sustainable development Skills: using ratios, fractions and percentages; using an appropriate number of significant figures. General exam techniques. PD: Observation skills					
SUMMER	Diet, Digestion & Breathing or Forces STEM Roller coaster project Field work. Skills: using and testing models, and interpreting observations or data to draw conclusions PD: teamworking, leadership skills and resilience	Forces or Human body systems Genetics & Evolution Suncream project Skills: Using apparatus to take measurements; ethical issues in science; calculating mean and range; and explaining the applications and implications of science. PD: Team working, leadership skills and resilience	Human Body systems Practical Ecology Electricity Rates of chemical reaction Skills: Explaining the applications and implications of science, consider sampling techniques PD: Data collection, data analysis, team working skills	 Coordination & control Ecology Energy changes in chemistry Quantitative chemistry Rates of reaction Forces & Motion Skills: Sampling and valid scientific data. Drawing and using gradients and tangents on graphs. PD: Data collection, data analysis and team working. 	Revision & final exams					

TERM	ASSESSMENT CALENDAR 2021 - 22						
	YEAR 7	YEAR 8	YEAR 9	YEAR 10	YEAR II		
AUTUMN	 Autumn Term Assessment: Mixed ability test 1hr Weighting: 70% Desert Island Dehydration Dilemma (Classroom assignment) Weighting: 20% Making a model cell (Homework project) Weighting: 10% 	 Autumn Term Assessment: Mixed ability test 1 hr Weighting 80% Farming and foodwebs (Classroom assignment) Weighting: 20% 	Energy end of topic quiz (weighting 30%) Cells end of topic quiz (weighting 30%) Chemical changes end of topic quiz (weighting 30%) Rockcycle (classroom assignment) (weighting 10%)	End of Topic Tests: Each I hour long (Weighting 100%.)	End of Topic Tests: These will be higher or foundation tier and will have a weighting of 50%. Walking Talking Mock exam (on paper I): This will be mixed tier and will have a weighting of 50%		
SPRING	*Autumn term assessments will contribute 40% of the weighting for this term* • Spring Term Assessment: Mixed ability test 1 hr Weighting: 40% • Which Fuel is Best? (Classroom assignment) Weighting 10% • Iron and Sulfur reaction (Classroom assignment) Weighting: 10%	*Autumn term assessments will contribute 40% of the weighting for this term* • Spring Term Assessment: Mixed ability test 1 hr Weighting: 30% • Antacids (Classroom assignment) Weighting 20% • Scrap Heap Challenge (Classroom assignment) Weighting: 20%	BI mixed tier test Ihr Weighting 20% CI mixed tier test Ihr Weighting 20% C2 mixed tier test Ihr Weighting 20% PI mixed tier test I hr Weighting 20% Light effects (homework assignment) 10% The dodgy BBQ (homework assignment) 10%	End of Topic Tests: Each I hour long (Weighting 100% cumulative.)	End of Topic Tests: These will be higher or foundation tier and will have a weighting of 50% cumulative. Paper I Mock Exam: This will be higher or foundation tier and will have a weighting of 50%.		
SUMMER	*All previous assessments will contribute 40% of the weighting for this term* • Summer Term Assessment: Mixed ability test 1hr Weighting 4 0% • Journey of a cheese sandwich (Classroom assignment) Weighting: 10% • Interplanetary Postcards (Homework assignment) Weighting: 10%	*All previous assessments will contribute 40% of the weighting for this term* • Summer Term Assessment: Mixed ability test 1hr Weighting 40% • Exercise& the body (Homework assignment) Weighting 20%	*All spring term assessments will contribute 60% of the weighting for this term* P2 mixed tier test I hr (weighting 20%) C3 mixed tier test I hr (weighting 20%)	End of Topic tests: Each I hr long. (Weighting 50% cumulative.) End of Year 10 biology, chemistry and physics exams. Higher or Foundation tier Each I hr long (Weighting 50%)	Walking Talking Mock exam (on paper 2): This will be mixed tier and will have a weighting of 50% cumulative. Paper 2 Mock Exam: This will be higher or foundation tier and will have a weighting of 50%.		