

Year 7 Science			
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July
S2/3 C	Changes of State	<u>Forces</u>	Reproduction
	What are the students learning? Introduction to Science States of matter and changes of state Atoms, elements and compounds Pure substances Mixtures and Separation techniques Filtration Evaporation Distillation Chromatography What are the key standardised assessments? FA1: Particle Model and Changes of state (AO1 recall) FA2: Investigative skills – Separation	What are the students learning? • Contact/non-contact forces • Balanced/unbalanced forces • Forces between magnets • Forces due to static electricity • Distance-time relationship What are the key standardised assessments? • FA1: Forces (AO1 recall) • Aspire Assessment 1 What are the standardised homework tasks? Educake is used as the standardised homework platform	What are the students learning?• Cells (specialised egg and sperm cells)• The human reproductive system• Puberty• Stages of the menstrual cycle• Fertilisation• Pregnancy• Needs of new-born babiesWhat are the key standardised assessments?• FA1: Cells and Reproduction (AO1 recall)• FA2: Changes during puberty (AO123)• Aspire Assessment 2
	TechniquesFA3: Chromatography (AO123)		What are the standardised homework tasks?
	What are the standardised homework tasks? Educake is used as the standardised homework platform.	 <u>The Earth, Space and Waves</u> <u>What are the students learning?</u> The Earth and the solar system Gravity and weight Waves and light 	Educake is used as the standardised homework platform
	 <u>Digestion</u> <u>What are the students learning?</u> Keeping healthy Principles of organisation (digestive system) 	 What are the key standardised assessments? FA1: The Earth and Beyond (AO123) What are the standardised homework tasks? Educake is used as the standardised homework platform 	 What are the students learning? Acids and alkalis pH scale and neutralisation Metals and their reactions Exo and endothermic reactions Reactivity of metals



 The role of enzymes, bile and stomach acid Absorption Diffusion 	What are the key standardised assessments?• FA1: Neutralisation (Investigative Skills)• FA2: Metal Reactivity (Investigative skills)
 What are the key standardised assessments? FA1: Food Tests and Burning Foods (AO1 recall) FA2: Digestive System and Enzymes (Extended writing) 	What are the standardised homework tasks? Educake is used as the standardised homework platform
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	Year 8 Science			
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July	
KS3 NC	Atoms and The Periodic TableWhat are the students learning?• Atoms, elements, compounds, mixtures• Dalton's atomic model• The periodic table• Chemical reactions and groups of the periodic tableWhat are the key standardised assessments?• FA1: The Periodic Table (AO1 recall)• FA2: Atoms and Reactions (AO123)What are the standardised homework tasks?Educake is used as the standardised homework platformCells and Plant Systems	Burning Fuels. What are the students learning? • Combustion • Thermal decomposition • Fuels, energy resources and alternative energy resources • Pollutants, their sources and actions to reduce emissions • Greenhouse gases What are the key standardised assessments? • FA1: Combustion (AO1 recall) • Aspire Assessment 1 What are the standardised homework tasks? Educake is used as the standardised homework platform	Planet Earth What are the students learning? • Interdependence • Variation, adaptation, competition and natural selection • Biodiversity • The carbon cycle • Composition of the Earth and its atmosphere • The rock cycle • Earth as a source of limited resources • Properties of polymers, ceramics and composites What are the key standardised assessments? • Aspire Assessment 2 • FA1: Interdependence (AO1 recall) • FA2: Adaptations (AO123) • FA3: Sampling (Investigative skills) • FA4: The Carbon Cycle (Extended writing)	
	What are the students learning?• Microscopy• Animal and plant cells• Cell specialisation• Plant tissues, organs, systems• Photosynthesis• Reproduction in plants/insect pollination and food securityWhat are the key standardised assessments? • FA1: Cells and organelles (AO1 recall)	 Energy and Electricity What are the students learning? Energy transfers Energy transfer and Hooke's Law Efficiency Heating and thermal equilibrium Electrical energy Calculation of fuel costs in the domestic context 	What are the standardised homework tasks? Educake is used as the standardised homework platform	



FA2: Structure of the Leaf (Extended/formative) <u>What are the standardised homework tasks?</u> Educake is used as the standardised homework platform	 Power ratings and link to fuel use and cost Magnetism and electromagnetism <u>What are the key standardised assessments?</u> FA1: Circuits (AO12) FA2: Resistance (AO123) FA3: Investigative Skills - Electromagnets 	
	What are the standardised homework tasks? Educake is used as the standardised homework platform	



Year 9 Science			
Refer to	Term 1 – September to December	Term 2 – January to March	Term 3 – April to July
KS3 NC and GCSE Specification	Effects of Exercise What are the students learning? • Digestive system (recap) • Respiratory system • Skeletal and muscular systems • Aerobic respiration • Anaerobic respiration and fermentation • The heart • The effects of exercise • Health and the effects of recreational drugs What are the key standardised assessments? • FA1: Digestion (AO123) • Aspire Assessment 1 • FA2: Effects of Exercise (AO123) • Aspire Assessment 1 • FA2: Effects of Exercise (AO123) • Aspire Assessment 1 • FA2: Effects of Exercise (AO123) • Aspire Assessment 1 • FA2: Effects of Exercise (AO123) • Aspire Assessment 1 What are the standardised homework tasks? Educake is used as the standardised homework platform Forces • Moments and levers • Pressure and hydraulics	Inheritance What are the students learning? • Cell structure and genetic material • Model of chromosomes, genes and DNA (including the work of Watson, Crick, Wilkins and Franklin in the development of the DNA model) • Variation • Changes in the environment, natural selection and extinction • Maintaining biodiversity and the use of gene banks What are the key standardised assessments? • FA1: Inheritance (AO1 recall) • FA2: Reproduction, Variation and Inheritance (AO123) • Aspire Assessment 2 What are the standardised homework tasks? Educake is used as the standardised homework tasks?	GCSE TRANSITION AQA COMBINED SCIENCE TRILOGY Atomic Structure and the Periodic Table What are the students learning? • Atomic structure/development of the model atom • Development of the periodic table What are the key standardised assessments? FA1: Periodic Table and Atomic Structure What are the standardised homework tasks? Educake is used as the standardised homework tasks? Educake is used as the standardised homework platform GCSE TRANSITION AQA COMBINED SCIENCE TRILOGY Cell Biology What are the students learning? • Cell structure • Microscopy • Cell division, cancer • Transport in cells
		What are the key standardised assessments?	What are the key standardised assessments?



Forces and elastic materials (including Hooke's Law) <u>What are the key standardised assessments?</u> FA1: Hooke's Law Investigation FA2: Forces and Elasticity (AO123) <u>What are the standardised homework tasks?</u> Educake is used as the standardised homework platform	What are the standardised homework tasks? Educake is used as the standardised homework platform	 FA1: Required practical: using a microscope FA2: Required practical: osmosis <u>What are the standardised homework tasks?</u> Educake is used as the standardised homework platform
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