

Subject Area: Science

Subject Leader: AJM

Year 7

Term	Topics/ Content Overview	Key concepts/ core knowledge/ key vocabulary	Assessments/ checkpoints (where relevant)	Careers' Links
Autumn Term 1	1. Working Scientifically 2. Matter	<ul style="list-style-type: none"> - Scientific Apparatus - Lab Safety - Readings & Measurements - Investigations - Analysing Results - Particle Model - Atoms & Elements - Heating & Cooling - Diffusion - Gas Pressure - Mixtures & Compounds 	HT1 Assessment on topics 1-2 Effort Tracking deadline 7 th October	
Autumn Term 2	3. Forces 4. Intro to Biology	<ul style="list-style-type: none"> - Types of Forces - Effects of Forces - Resultant Forces - Contact & Non-Contact Forces - Bending & Stretching - What is Biology - Biodiversity - Adaptations - Size and Scale - Unicellular & Multicellular Organisms 	Term 1 Test on all topics 1-4	

	5. Chemical Reactions	<ul style="list-style-type: none"> - Chemical Reactions & Physics Changes - Combustion - Decomposition - Displacement - Catalysts 		
Spring Term 1	6. Energy 7. Microscopes, Cells, Respiration & Diffusion	<ul style="list-style-type: none"> - Energy Stores - Energy Transfers - Work Done - Energy in Stretched Objects - Using Microscopes - Magnification - Plant & Animal Cells - Function of Organelles - Respiration - Diffusion - Specialised Cells 	Term 2 Test on all topics 1-7 Effort and Progress Tracking deadline Friday 10 th February	
Spring Term 2	8. Reproductive System, Growth & Life Cycles 9. Pressure	<ul style="list-style-type: none"> - Reproductive Organs - Fertilisation - The Menstrual Cycle - Gestation & Birth - Effects of Smoking, Alcohol & Diet - Puberty - Pressure Calculations - Pressure Applications 		
Summer Term 1	10. Separating Mixtures 11. Nutrition & Digestion	<ul style="list-style-type: none"> - Separating Mixtures - Dissolving - Distillation - Chromatography - Healthy Diet - Energy Requirements 	Term 3 Test on all topics 1-10 Effort and Progress Tracking deadline Friday 5 th May Parents' Evening Thursday 18 th May	

		<ul style="list-style-type: none"> - Deficiency Diseases - Digestion - Absorption of Nutrients 		
Summer Term 2	12. Photosynthesis, Food Webs & Interdependence 13. Earth & the Universe	<ul style="list-style-type: none"> - Photosynthesis Reaction - Photosynthesis Reactants - Leaf Adaptations - Earth's Atmosphere - Biomass - Food Webs - Interdependence 		