

SUBJECT: SCIENCEYEAR GROUP: 8	
TOPICS COVERED	
Biology: Food and digestion, Plants, Breathing	
<b>Chemistry:</b> Chemical reactions, Earth and atmosphere, Reactivity series and chemical equations	
Physics: Heat, Light, Sound	
PROGRAMME OF STUDY	METHOD OF ASSESSMENT
PROGRAMME OF STUDY Autumn Term	METHOD OF ASSESSMENT
PROGRAMME OF STUDY         Autumn Term         Food and digestion:         Food and digestion:         Food groups, Balanced diet, Food test, Vitamins and minerals, Malnutrition, Obesity, Digestion, Villi, Enzymes, Bacteria in the gut	METHOD OF ASSESSMENT Practical assessment
PROGRAMME OF STUDY         Autumn Term         Food and digestion:       Food groups, Balanced diet, Food test, Vitamins and minerals, Malnutrition, Obesity, Digestion, Villi, Enzymes, Bacteria in the gut         Heat:       Heat and temperature, Convection, Conduction, Radiation	METHOD OF ASSESSMENT Practical assessment End of topic test after each unit

Spring Term	
<b>Plants:</b> Plant cells and plant organs, The structure of the leaf, Testing for starch, Photosynthesis, The factors affecting photosynthesis, Stomata, Gas exchange in plants	Practical assessment
<b>Earth and atmosphere:</b> The composition of the atmosphere, The structure of the Earth Japeous rocks. Metamorphic rocks, Sedimentary rocks, Rock cycle, Recycling	End of topic test after each unit
Carbon cycle, Global warming, Composites, Ceramics, Polymers	Assessed tasks/models/projects
<b>Light:</b> Type of waves, Superposition, Reflection, Refraction, Dispersion, Colours, The human eye	

Summer Term	
<ul> <li>Breathing: The structure of the breathing system, Lung structure and the role of alveoli, Measuring the volume of the lungs, Problems with breathing, Effect of smoking on lungs, Exercise and breathing, Aerobic and Anaerobic respiration</li> <li>Sound: Waves, Echo, Reflection and absorption of sound, ultrasound, The ear, Hearing problems, Sound and Light comparison</li> </ul>	Practical assessment End of topic test after each unit Assessed tasks/models/projects
Extraction of metals, Chemical formulae, Thermite reaction and extraction of iron,	
Key Skills:	
<ul> <li>Experimental work</li> <li>Collecting data</li> <li>Interpreting, analysing and evaluating data</li> <li>Research and hypothesising</li> <li>Predicting and concluding</li> <li>Evaluating</li> </ul>	