



Year 8 Curriculum

Science



BIOLOGY			
	Autumn Term 2	Spring Term 2 & Summer Term 1	Summer Term 2
Topic	Health & Lifestyle	Ecosystem Processes	Adaptation & Inheritance
Key Concepts	<ul style="list-style-type: none"> Nutrients Food tests Unhealthy diet Digestive system Bacteria & enzymes in digestion Drugs, alcohol & smoking 	<ul style="list-style-type: none"> Photosynthesis Leaves Plant minerals Chemosynthesis Aerobic & anaerobic respiration Food chains & webs Ecosystems 	<ul style="list-style-type: none"> Competition & adaptation Variation Inheritance Natural selection Extinction

CHEMISTRY				
	Autumn Term 1	Autumn Term 2	Spring Term 1	Summer Term 2
Topic	The Periodic Table	Separation Techniques	Metals & Acids	Earth & Atmosphere
Key Concepts	<ul style="list-style-type: none"> Metals & non-metals Groups & periods Group 1 Group 7 Group 0 	<ul style="list-style-type: none"> Mixtures Solutions & solubility Filtration Evaporation & distillation Chromatography 	<ul style="list-style-type: none"> Metals & acids Metals & oxygen Metals & water Metals & displacement reactions Extracting metals 	<ul style="list-style-type: none"> Earth & atmosphere Rock cycle Pollutants Greenhouse effect Climate change Carbon cycle Testing for gases

PHYSICS			
	Autumn Term	Spring 1	Spring Term 2 & Summer Term 1
Topic	Energy	Motion & Pressure	Electricity & Magnetism
Key Concepts	<ul style="list-style-type: none"> Food & Fuels Energy stores Energy and temperature Conduction & Convection Radiation Energy resources Energy & power 	<ul style="list-style-type: none"> Speed Acceleration Distance/time Velocity/time Pressure Balanced / unbalanced forces 	<ul style="list-style-type: none"> Static & charge Circuits & Current Potential difference Series & parallel Resistance Magnets & magnetic fields Electromagnets and uses




Year 8 Assessment

Science



All pupils will sit several knowledge tests and an assessment in Year 8.

	Knowledge Test	Assessment	Revision Resources
	Autumn/Spring Terms	Summer Term	
Style of Assessment	Each knowledge test consists of 10 multiple-choice questions	Multiple-choice, short answer and longer answer questions	<i>Kennet Resources</i> <ul style="list-style-type: none">Year 8 Knowledge OrganisersLearning Habits <i>External Resources</i> <ul style="list-style-type: none">www.educake.co.ukwww.educationquizzes.comwww.bbc.com/bitesizewww.youtube.com <p>You can also find revision material on Frog</p> 
Topics Assessed	<ul style="list-style-type: none">Core knowledge taught until that point in the academic year	<ul style="list-style-type: none">Health and lifestyleThe Periodic TableEnergySeparation techniques	