

Year 8 Curriculum Guide

Subject: Science Subject Leader: Mr Singh

Method of assessment

Teachers will grades some tasks done in lesson and end of unit tests to assess progress and identify how students might improve. Intervention will be targeted where it is needed. In addition, at the end of unit tests there will be a set of lessons where students have an opportunity to practice these key skills through set practical investigations which can be separately assessed and progress measured across the year. The students will receive a grade on the new grading system for Science GCSE is 9-1 with 9 being the highest.

Overview

	Autumn Term	Spring Term	Summer Term
1st Half	Contact Force	Matter	Breathing
	 Friction and 	- Elements,	- Gas exchange
	turning forces	compounds,	- Breathing
	Pressure	chemical	- Drugs, Alcohol,
	 Pressure in gases 	formulae	Smoking
	and liquids	- Polymers	Digestion
	 Stress of solids 	Periodic table	- Nutrients, Food
	Electromagnets	 the periodic table 	tests
	(part 2)	- properties of	 unhealthy diet
	 Magnetic Fields 	Groups 1, 0, 7	- Digestive system
	 Properties of 	elements	and digestion
	electromagnets	Chemical reactions	Ecosystems
	- Use of	- Atoms in	 Interdependence:
	electromagnets	chemical	aerobic and
		reactions	anaerobic
		 Combustion and 	respiration
		decomposition	
		 Conservation of 	
		mass	
2 nd Half	Energy	Chemical energy	Photosynthesis
	 Work done and 	 Exothermic and 	 process of
	machines	Endothermic	photosynthesis,
	 Energy and 	reactions	structure of the
	temperature	 Energy level 	leaf, investigation
	 Energy transfer: 	diagrams and	photosynthesis
	particles	bonding energy	Genes
	 Energy transfer: 		 Variation: Natural
	radiation and	Climate	selection, Charles
	insulation	 Global warming, 	Darwin, extinction
	Waves	the carbon cycle,	Human reproduction
	 Types of waves 	climate change	 Inheritance, DNA,
	- Radiation and	Earth resources	Genetics, Genetic
	energy	 Extracting metals, 	modification
	 Modelling waves 	recycling	

Text Book/Reference/Resource guide:

Main resources:

- Activate text book 2. ISBN 9780198408253
- https://www.kerboodle.com

Websites:

https://www.my-gcsescience.com

http://www.bbc.co.uk/education/subjects/zrkw2hv

http://www.planet-science.com/categories/parentsteachers/science-resources/2012/04/online-gcse-revision-