

Year 9 Curriculum Guide

Subject: Science Subject Leader: Mr Singh

Method of assessment

Students will have formal assessments throughout the course to cover contents and skills at the end of every topic. There will be regular homework which will have opportunities to read up on topics, to review and consolidate on the concepts covered in topics. There will be termly assessments, and these will comprise of exam-style questions. At the end of the year all students will have a final assessment to ascertain their levels for the subject in terms of their understanding, application of concepts and analytical skills.

Overview

	Autumn Term	Spring Term	Summer Term
1st Half	Biology:	Biology:	Chemistry:
	Cells and organisation	Cells and organisation	Atoms, bonding and moles
	B1 – Cell structure and transport	B3 – Organisation and the	C4 – Chemical calculations
	 What are cells and how are 	digestive system	- Calculations of
	they organised?	- The interaction	relative masses
	- How are cells specialised?	between tissues	- Working out
	 How do cells transport and 	and organs	concentrations
	exchange substances?	 How the digestive 	
		system is organised	P4 – Electrical circuits
	Chemistry:	and how it works	- Calculating current,
	Atoms, bonding and moles	- The action of	charge, Voltage
	C1 – Atomic structure	enzymes	and Resistance
	 What is the structure of 		- Relationship
	atoms?	Chemistry:	between Potential
	 How atoms were discovered 	Atoms, bonding and moles	difference and
	 How substances can be 	C3 – Structure and Bonding	resistance
	separated	 What are the states 	- Differences in
	 Using chemical equations 	of matter?	parallel and series
		- The types of	circuits
		bonding between	
		atoms and ions	
		 Bonding in metals 	
		- Giant covalent	
		structures	
		P2 – Energy transfer by	
		heating	
		 How energy is 	
		transferred	
		- What is Specific	
		Heat Capacity?	
		- How insulation is	
		used in buildings	
1			

2nd half	Biology:	Biology:	Biology:
	Cells and organisation	Cells and organisation	Cells and organisation
	B2 – Cell division	B4 – Organising animals	B5 – Communicable
	 How and why cells divide? 	and plants	diseases

Text Book/Reference/Resource guide:

- <u>www.kerboodle.com</u> access to digital book and other resources
- CGP Revision guides for Science (AQA)
- AQA examination board (<u>http://www.aqa.org.uk/subjects/science/gcse</u>) for sample materials and syllabus
- <u>http://www.bbc.co.uk/education/subjects/zk26n39</u>
- http://www.s-cool.co.uk/
- AQA GCSE Biology/Chemistry/Physics Text books

(ISBN 97801359371/978198359388/9780198359395)