

Year 9 GCSE Combined Science

Biology units:	Chemistry units:	Physics units:
Term 1 (36 lessons – 24 with Lead Teacher, 12 with Second Teacher)		
<ul style="list-style-type: none"> • Cell biology <ul style="list-style-type: none"> ○ Prokaryotic and eukaryotic cells ○ Growth and development of cells ○ Cell metabolism ○ <i>Mathematics</i> 	<ul style="list-style-type: none"> • Atomic structure and the periodic table <ul style="list-style-type: none"> ○ A simple model of the atom, relative atomic mass, electronic charge and isotopes (<i>common to Phy</i>) ○ The modern Periodic table 	<ul style="list-style-type: none"> • Particle model of matter <ul style="list-style-type: none"> ○ Changes of state and the particle model ○ Internal energy, energy transfers and particle motions ○ <i>Mathematics</i>
Term 2 (33 lessons – 22 with Lead Teacher, 11 with Second Teacher)		
<ul style="list-style-type: none"> • Ecology <ul style="list-style-type: none"> ○ Levels of organisation within an ecosystem ○ The principle of material cycling ○ Biodiversity ○ <i>Mathematics</i> 	<ul style="list-style-type: none"> • Chemical changes (first half only) <ul style="list-style-type: none"> ○ Chemical symbols, formulae and equations ○ Identification of common gases ○ Chemistry of acids ○ <i>Mathematics</i> 	<ul style="list-style-type: none"> • Atomic structure <ul style="list-style-type: none"> ○ Nuclear atom and isotopes (<i>common to Chem</i>) ○ Absorption and emission of ionising radiations and of electrons and nuclear particles ○ <i>Mathematics</i>
Term 3 (36 lessons – 24 with Lead Teacher, 12 with Second Teacher)		
<ul style="list-style-type: none"> • Infection and response <ul style="list-style-type: none"> ○ Health and disease ○ Communicable diseases ○ Treating, curing and preventing disease ○ Non-communicable diseases ○ <i>Mathematics</i> 	<ul style="list-style-type: none"> • Chemistry of the atmosphere <ul style="list-style-type: none"> ○ The composition and evolution of the Earth's atmosphere since its formation ○ Carbon dioxide and methane as greenhouse gases ○ Common atmospheric pollutant and their sources ○ The Earth's water resources and obtaining potable water ○ <i>Mathematics</i> 	<ul style="list-style-type: none"> • Energy <ul style="list-style-type: none"> ○ Energy changes in a system, and in the ways energy is stored before and after such changes ○ Conservation, dissipation and national and global energy sources ○ <i>Mathematics</i>

Assessment Points (Formal):

Term 1 assessment (week beginning 30/11/2015): 1/3-Bio, 1/3-Chem, 1/3-Phy

Term 2 assessment (week beginning 14/03/2016): 1/3-Bio, 1/3-Chem, 1/3-Phy (33% Term 1 content + 67% Term 2 content)

Term 3 assessment (week beginning 04/07/2016): 1/3-Bio, 1/3-Chem, 1/3-Phy (25% Term 1 content + 25% Term 2 content + 50% Term 3 content)