

SCIENCE: Year 9 (set 3, 4 and 5)*

Course Outline



Half term	TOPIC	CONTENT
1	Genetics and Evolution	Transfer of genetic information from one generation to the next. Natural selection and speciation. Simple model of chromosomes, genes and DNA.
	Energy and Electricity	Electric current. Potential difference. Differences in resistance between conducting and insulating components.
OCTOBER HALF TERM HOLIDAY		
2	Energy and Electricity continued	Electric current. Potential difference. Differences in resistance between conducting and insulating components.
	Chemical Reactions	Chemical reactions as the rearrangement of atoms. Representing chemical reactions using formulae and equations. Exothermic and endothermic reactions.
CHRISTMAS HOLIDAYS		
3	Microbes and Disease	Bacteria, viruses and fungi. The spread of infectious diseases. Natural and artificial barriers to infection.
	P1_1 Energy Transfer by Heating	Radiation, conduction and convection. Evaporation and condensation. Specific heat capacity. Heating and insulating buildings.
FEBRUARY HALF TERM HOLIDAY		
4	P1_1 Energy Transfer by Heating continued	Radiation, conduction and convection. Evaporation and condensation. Specific heat capacity. Heating and insulating buildings.
	C1_1 Fundamental ideas about Chemistry	Atoms, elements and compounds. Atomic structure.
EASTER HOLIDAYS		
5	C1_1 Fundamental ideas about Chemistry cont.	The arrangement of electrons in atoms. Forming bonds. Chemical equations.
	B1_1 Keeping Healthy	Diet and exercise. Weight problems. Pathogens. Using drugs to treat disease.
MAY HALF TERM HOLIDAY		
6	B1_1 Keeping Healthy cont.	Growing and investigating bacteria. Changing pathogens (superbugs). Immunity.

*The course outline for set 1 and 2 are currently under development due to changes to the GCSE examinations.