

Year 9 Science Curriculum

Term 1	Topic	Details
1	Introduction working scientifically – working with equations, ideas and evidence Plants - Biology	Photosynthesis, Mineral salts for plants, Plants and water
2	Biology – Plants	Flowers, pollination, fertilisation, fruits
3	Chemistry – Material Properties	The structure of the atom, trends in group 1, trends in other groups
4	Chemistry – Energy Changes	Burning, exothermic reactions and endothermic processes.
5	Physics – Forces in Action	The idea of density, measuring density, density calculations
6	Physics – Forces in Action	Pressure, pressure calculations, Pressures in gases and liquids
7	Physics – Forces in Action	The turning effect of a force, the principles of moments, Calculating moments
8	Mid Term Test and Review	
9	Biology – Living things in their environments	Plant adaptations, animal adaptations, ecology, food webs and energy flows, decomposers
10	Biology – Living things in their environments	Populations, pollution, Habitat destruction, Protecting the environment
11	Chemistry – Reactivity	Metals and their reactions with oxygen, reactions of metal in water, reactions of metals with dilute acid
12	Chemistry - Reactivity	The reactivity series, displacement reactions, using displacement reactions
13	Physics – Electricity	Static electricity, positive and negative charge, electrons on the move
14	Physics – Electricity	Conductors and insulators, electric current in a circuit, understanding electric currents
15	Physics – Electricity	Circuits, Changing Circuits
16	End of Term Test and Review	

Term 2	Topic	Details
1	Biology – Variation and inheritance	Keys, variation, inheritance, selective breeding
2	Biology – Variation and inheritance	Natural selection, Charles Darwin
3	Chemistry - Salts	What is a salt, preparing a salt using metal and acids
4	Chemistry – Salts	Metal carbonates and acids, forming salts by neutralisation
5	Chemistry – Rates of reaction	Measuring the rate of reaction, changes in the rate of reaction
6	Chemistry – Rates of reaction	Surface area and the rate of reaction, temperature and the rate of reaction
7	Chemistry – Rates of reaction	Concentration and the rate of reaction, Catalysts
8	Mid Term Test and Review	
9	Physics – Energy	Review types of energy, how we use energy, Fossil fuels
10	Physics – Energy	Renewables and non-renewables
11	Physics – Energy	Conduction of heat, Convection
12	Physics – energy	Radiation, Evaporation
13	Review Biology	
14	Review Chemistry	
15	Review Physics	
16	End of Term Test and Review	Test week