
































Subject: Chemistry

Year:10

Half -Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Themes/ Content/ Units covered 	Atomic Structure and the Periodic Table Atoms, Elements and Compounds  Mixtures and separation Techniques  History of the atom  Atomic Structure, Isotopes and Electronic Configuration, groups  Development of the periodic table  Chemical equations  SS ONLY: Transition Metals 	Bonding, Structure and Properties of Matter Ionic bonding, Compounds and Properties  Covalent bonding and properties of simple and giant covalent structures  Metallic bonding and alloys  Changes of State  Polymers  SS ONLY: Nanoparticles and applications 	Quantitative Chemistry Relative mass, conservation of mass, balancing and using moles in equations  Limiting reactants  Concentration of solutions  SS ONLY: Yield and atom economy  SS ONLY: Titrations and calculations  Uncertainty in measurements 	Chemical Changes Displacement reactions and extracting metals  Making salts  pH scale and neutralisation  SS ONLY: Strong and weak acids 	Chemical Changes (cont.) Electrolysis – introduction; products; electrolysis of brine and aqueous solutions and the extraction of aluminium 	Energy Changes Endothermic and exothermic energy changes  Using energy transfers  Reaction profiles  Bond energy calculations  SS ONLY: Chemical cells and batteries and fuel cells 