Week	Topic area	Lesson title	Practicals
1	**C1 States of matter**	SC1a: States of matter	Sugested practical: heating curve for water (ice cubes); Demo1: solid,liquid,gas; Demo2: Sublimation (iodine crystals)
		SC1a: States of matter	
	C2 Methods of separating and purifying substances	SC2a: Mixtures	Sugested practical: melting of ice in addition of salt
		SC2b: Filtration and crystallisation	Sugested practical: purifying rock salt
		SC2c: Paper chromatography	
3			Sugested practical: chromatography with food colouring (ruler for Rf)/ can try with permanent inks and other solvents eg: ethanol
		SC2c: Paper chromatography	
		SC2d: Distillation	Sugested practical1: simple distillation of impure water; Practical 2: miscible or immiscible (ethanol, water, oil); Demo: fractional distillation of crude oil (use Liebig condenser)
		SC2d: Distillation	
		SC2d: Core practical - Investigating inks	CORE PRACTICAL: investigate the composition of inks using simple distillation and paper chromatography
5			
		SC2d: Core practical - Investigating inks	
		SC2e: Drinking water	Sugested practical:cleaning dirty water
		Revision	
7		Test C1/C2	
oct half term		Review lesson	
	C3 Atomic structure	SC3a: Structure of an atom	Demo: atom model; Sugested practical: students may make their own model(polysterene balls; card, thread, etc)
		SC3b: Atomic mass and number	
9		SC3b: Atomic mass and number	
		SC3c: Isotopes	
		SC3c: Isotopes	
		SC4a: Elements and the periodic table	
11	**C4 The periodic table**	SC4a: Elements and the periodic table	
		SC4b: Atomic number and the periodic table	Sugested practical: Properties of metals and non metals (aluminium, copper, sulfur, graphite, charcoal); Demo: group1 and 7 elements
		SC4b: Atomic number and the periodic table	
		SC4c: Electronic configurations and the periodic table	
13		SC4c: Electronic configurations and the periodic table	
		Revision	
xmas		Test C3/C4	
		Review lesson	
15	**C5 Ionic bonding**	SC5a: Ionic bonds	Demo: electrostatic forces
		SC5b: Ionic lattices	Demo: Sodium chloride model
		SC5b: Ionic lattices	
		SC5c: Properties of ionic compounds	Sugested practical: solubility and conductivity of ionic compounds(sodium chloride, sodium bromide and magnesium oxide)
17			
		SC5c: Properties of ionic compounds	
	C6 Covalent bonding	SC6a: Covalent bonding	Sugested practical: use molymod to make simple covalent molecules
		SC6a: Covalent bonding	
19	**C7 Types of substance**	SC7a: Properties of covalent compounds	Sugested practical1: solubility, conductivity and melting point of simple covalent molecules; Sugested practical2: making slime
		SC7a: Properties of covalent compounds	
		SC7b: Allotropes of carbon	Sugested practical: graphene, bucky ball, diamond and graphite model
feb half term		SC7b: Allotropes of carbon	
		SC7c: Properties of metals	Sugested practical: Malleability, heat and electrical properties of metals
21		SC7c: Properties of metals	
		SC7d: Bonding models	

		Revision		
		Test C5/C6/C7		
23		Review lesson		
	C8 Acids	SC8a: Acids, indicators and pH		Sugested practical: testing different substances with different indicators
			SC8a: Acids, indicators and pH	
		SC8b: Looking at acids		Sugested practical: HCl of different concentrations and magnesium; Demo: Electrolysis of
25			SC8b: Looking at acids	HCl testing hydrogen
		SC8c: Bases and salts		CORE PRACTICAL: Preparing a pure, dry sample of copper sulfate crystals from copper
			SC8c: Bases and salts	oxide using a water bath
easter		SC8d: Alkalis and balancing equations		
27			SC8d: Alkalis and balancing equations	CORE PRACTICAL: Investigate the change in pH on adding powdered calcium hydroxide
		SC8e: Alkalis and neutralisation		or calcium oxide to a fixed volume of dilute hydrochloric acid
			SC8e: Alkalis and neutralisation	Sugested practical: titration
		SC8f: Reactions of acids with metals and carbonates		Sugested practical: copper and copper carbonate to react with different acids (test for
29			SC8f: Reactions of acids with metals and carbonates	carbon dioxide)
		SC8g: Solubility		Sugested practical: making precipitates
			SC8g: Solubility	
		Revision		
31		Test C8		
		Review lesson		
		Revision		
may half term		Revision		
33		Revision		
		Revision		
		Revision		
		Revision		
35		Revision		
		Revision		
		Revision		
		Revision		
37		END OF YEAR ASSESSMENT		
		Feedback		