

GCSE Chemistry Trilogy Science Year 10	Autumn HT1 Chapter 1	Autumn HT2 Chapter 1/2	Spring HT1 Chapter 2/3	Spring HT2 Chapter 3/4	Summer HT1 Chapter 4/5	Summer HT2 Chapter 5
	<ol style="list-style-type: none"> 1. Elements and compounds 2. Atoms, formulae and equations 3. Mixtures 4. Changing ideas about the atom 5. Relating charges and masses 6. Sub-atomic particles 7. Electronic structure 8. The periodic table 9. Developing the periodic table 10. Comparing metals and non-metals 11. Metals and non-metals 12. The outer electrons 	<ol style="list-style-type: none"> 1. Group 0 2. Group 1 3. Group 7 4. Reactions and trends and predicting reactions 5. Standard form and making estimates 6. Chemical bonds 7. Ionic bonding 8. Ionic compounds 9. Covalent bonding 10. Metallic bonding 11. Three states of matter 12. Properties of ionic compounds 	<ol style="list-style-type: none"> 1. Properties of small molecules 2. Polymer structures 3. Giant covalent structures 4. Properties of metals and alloys 5. Diamond 6. Graphite 7. Graphene and fullerenes 8. Size of particles and orders of magnitude 9. Visualise and represent 2D and 3D shapes 10. Conservation of mass equations 11. Relative formula mass 	<ol style="list-style-type: none"> 1. Mass changes when gases are in reactions 2. Chemical measurements and uncertainty 3. Moles 4. Amounts of substances in equations 5. Using moles to balance equations 6. Concentrations of solutions 7. Amounts in chemistry 8. Change the subject of an equation 9. Reactivity series 10. Extraction of metals 11. Oxidation and reduction in 	<ol style="list-style-type: none"> 1. Neutralisation of acids and salt production 2. Soluble salts 3. Soluble salt required practical 4. pH and neutralisation 5. Strong and weak acids 6. The process of electrolysis 7. Using electrolysis to extract metals 8. Electrolysis of aqueous solutions 9. Electrolysis required practical 10. Electron transfer, oxidation and reduction 11. Endothermic and exothermic reactions 12. Temperature changes required practical 	<ol style="list-style-type: none"> 1. Reaction profiles 2. Energy change of reactions 3. Measuring rates 4. Limiting reactions and molar masses 5. Calculating rates 6. Factors affecting rates 7. Rate of reaction required practical 8. Factors increasing the rate 9. Collision theory 10. Catalysts 11. Reversible reactions and energy changes 12. Equilibrium

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