**Chemistry Revision**

What you need to revise from your textbook (Complete Chemistry for Cambridge IGCSE) for your IGCSE Coordinated Sciences exams:

**Chemistry topics (Coordinated Sciences) Complete Chemistry for Camb. IGCSE**

C1. The particulate nature of matter Chapter 1, pp.8 - 13

C2. Experimental techniques

2.1 Methods of separation and purification Chapter 2, pp.18 - 23

C3. Atoms, elements and compounds

3.1 Physical and chemical changes Chapter 4, p.47

3.2 Elements, compounds and mixtures Chapter 4, p.46

3.3 Atomic structure and the Periodic Table Chapter 3, pp.30 – 33, 34 top, 36 - 37

3.4 Ions and ionic bonds Chapter 4, pp.48 – 53

3.5 Molecules and covalent bonds Chapter 4, pp.54 - 59

3.6 Giant structures Chapter 4, pp.60 - 61

C4. Stoichiometry Chapter 5, pp.66 - 71

4.1 The mole concept Chapter 6, pp.76 - 83

C5. Electricity and chemistry Chapter 8, pp.103 - 111

C6. Energy changes in chemical reactions

6.1 Energetics of a reaction Chapter 9, pp.114 - 115

C7. Chemical reactions

7.1 Speed of reaction Chapter 10, pp.130 - 140

7.2 Redox Chapter 7, pp.92 - 95

C8. Acids, bases and salts

8.1 The characteristic properties of acids & bases Chapter 11, pp.148 – 153

8.2 Types of oxides Chapter 11, pp.156 – 157 (not amphoteric)

8.3 Preparation of salts Chapter 11, pp.158 – 161

8.4 Identification of ions and gases Chapter 19, p.285 – 287 (not Al, Ca, Br or I)

C9. The Periodic Table Chapter 12, pp.166 – 177 & p.37

C10. Metals

10.1 Properties of metals Chapter 13, pp.182 - 183 & p.202 - 203

10.2 Reactivity series Chapter 13, pp.184 - 188

10.3 Extraction of metals Chapter 13, pp.196 - 199

10.4 Uses of metals Chapter 13, pp.191, 202 - 203

C11. Air and water Chapter 15, pp.210 - 219

Chapter 16, pp.226 – 229, 234 – 235, 238 – 239

(water test on p.124)

C12. Sulfur Chapter 16, pp.232 - 233

C13. Carbonates Chapter 16, pp.240 - 241

C14. Organic chemistry

14.1 Fuels )

14.2 Introduction to organic compounds ) Chapter 17, pp.244 – 257

14.3 Hydrocarbons )

14.4 Alcohols )

14.5 Macromolecules Chapter 18, pp.262 - 263

14.6 Synthetic polymers Chapter 18, p.264 - 266

14.7 Natural macromolecules Chapter 18, p. 274 & 276

The questions at the end of each chapter are also very helpful (answers to some are on p.290) and the *relevant* exam questions from pp.292 – 309.