

AQA CHEMISTRY TRIPLE CHECKLIST

PAPER 1	Red	Amber	Green
<u>Topic 1 -Atomic Structure</u>			
1.8-Periodic table			
1.9-Development of the Periodic table			
1.10- Metals and Non-Metals			
1.11-Group 0			
1.12-Group 1			
1.13-Group 7			
1.14-Properties of Transition metals (CHEM ONLY)			
<u>Topic 2 -Bonding and Structure</u>			
2.1-Chemical Bonds			
2.2-Ionic Bonding			
2.3- Ionic Compounds			
2.4-Covalent Bonding			
2.5-Metallic Bonding			
2.6-Three States of matter and state symbols			
2.7-Properties of Ionic Compounds			
2.8-Properties of Small Molecules			
2.9-Polymers			
2.10-Giant Covalent Structures			
2.11-Properties of Metals and Alloys			
2.12-Metals as Conductors			
2.13-Diamond			
2.14-Graphite			
2.15-Graphene and Fullerenes			
<u>Topic 3-Qualitative Chemistry</u>			
3.1-Conservation of mass			
3.2-Relative formula mass			
3.3-Mass changes involving gases			
3.4-Chemical measurements			
3.5- Moles (HT)			
3.6-Amounts of substances			
3.7-Using moles to balance equations			
3.8-Limiting reactants			
3.9-Concentration of solutions			
<u>Topic 4-Chemical Changes</u>			
4.1-Metal Oxides			
4.2-Reactivity Series			
4.3-Extraction of metals and reduction			
4.4-Oxidation and reduction in terms of electrons (HT)			
4.5- Reactions of metals with acids			
4.6-Neutralisation of acids and salts			
4.7-Soluble Salts			
4.8- p H Scale and neutralisation			
4.9- Titrations			

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4.10- Strong and weak acids (HT)			
4.11-Electrolysis			
4.12-Electrolysis of molten ionic compounds			
4.13-Using electrolysis to extract metals			
4.14- Electrolysis of aqueous solutions			
4.15-Half equations (HT)			
REQUIRED PRACTICAL: TITRATION AND CALCULATIONS			
REQUIRED PRACTICAL: MAKING A SALT			
<u>Topic 5-Energy Changes</u>			
5.1-Exo and Endo reactions			
5.2-Reaction Profiles			
5.3- Energy changes in reactions (HT)			
REQUIRED PRACTICAL: ENERGY CHANGES			
PAPER 2			
<u>Topic 6-Rates of Reaction</u>			
6.1-Calculating rates of reaction			
6.2- Factors which effect the rate of reaction			
6.3- Collision theory and activation energy			
6.4- Catalysts			
6.5- Reversible reactions			
6.6- Energy changes and reversible reactions			
6.7-Equilibrium			
6.8-The effect of changes conditions on equilibrium (HT)			
6.9-The effect of changing concentration (HT)			
6.10-The effect of changing temperature (HT)			
6.11-The effect of changing pressure (HT)			
REQUIRED PRACTICAL: DISAPPEARING CROSS			
<u>Topic 7-Organic Chemistry</u>			
7.1-Crude Oil, hydrocarbons and alkanes			
7.2-Fractional distillation and petrochemicals			
7.3- Properties of hydrocarbons			
7.4-Cracking and alkenes			
<u>Topic 8- Chemical Analysis</u>			
8.5-Flame tests			
8.6-Metal Hydroxides			
8.7- Carbonates			
8.8- Halides			
8.9-Sulfates			
8.10-Instrumental Methods			
8.11- Flame emission spectroscopy			
REQUIRED PRACTICAL: ION TESTS FLAME TESTS TO SULFATES			

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<u>Topic 9-Chemistry of the Atmosphere</u>			
9.1-Gases in the atmosphere			
9.2-The Earth's early atmosphere			
9.3-How Oxygen Increased and Carbon Dioxide decreased			
<u>Topic 10- Earth's Resources</u>			
10.1- Using the Earth's resources			
10.2-Potable water			
10.3- Waste water treatment			
10.10- The Haber processes			
10.11- Production and uses of NPK fertilisers			