

CHEMISTRY FORM 5 2009-2010

Textbook: 'GCSE Chemistry' by B. Earl & J. L. D. Wilford (Second Edition)

FIRST TERM

1. Organic Chemistry

- 1.1 Saturated hydrocarbons – The Alkanes pg. 175-178
- 1.2 Unsaturated hydrocarbons – The Alkenes and Alkynes pg. 178-180
- 1.3 Petroleum pg.172-174
- 1.4 Alcohols pg. 203-206
- 1.5 Ethanoic Acid pg. 207-208
- 1.6 Polymerisation pg. 197-202

2. Energetics

- 2.1 Energy changes. pg. 190 -192
- 2.2 Energy changes in particular chemical reactions
- 2.3 Determination of the Heat of Combustion.
- 2.4 Principle of Conservation of energy.

3. Rates of Reaction

- 3.1 Kinetic Theory for rates of reaction pg. 161 -169
- 3.2 Factors affecting the rate of reaction: concentration, pressure, temperature, surface area, light and catalysts

4. Equilibria

- 4.1 Reversibility of reactions. pg. 193, 202
- 4.2 Equilibrium.
- 4.3 Le Chatelier's Principle.
- 4.4 Industrial Examples – The Haber Process.
The Contact Process.

3 practical sessions (experiments) + 1 investigation

SECOND TERM

5. Carbon and its compounds

- 5.1 Special Properties of carbon
- 5.2 Allotropes of carbon pg. 62 – 64
- 5.3 Reactions of Carbon
- 5.4 Carbon dioxide – Preparation and properties. pg. 121-123
- 5.5 Carbon monoxide - Preparation and properties.

6. Sulfur and its compounds

- 6.1 Uses of sulfur pg. 228-234
- 6.2 Allotropes of sulfur
- 6.3 Sulfur dioxide
- 6.4 Sulfur trioxide
- 6.5 Sulfuric acid - industrial preparation, uses and properties

7. Nitrogen and its compounds

- 7.1 Nitrogen – properties and extraction pg. 150-151
- 7.2 Ammonia – Preparation and properties. pg. 220-222
- 7.3 Nitric Acid – Preparation and properties pg. 223-224
- 7.4 Nitrogen monoxide and Nitrogen dioxide.

8. Halogens and their compounds

- 8.1 The halogens and their properties. pg. 45-48
- 8.2 Chlorine – preparation, extraction its compounds. pg. 86-87

9. Common place products of the chemical industry

5 practical sessions (experiments)

- Revision
- Exams

ASSESSMENT MARK DESCRIPTION

TERM	<i>Classwork/ Homework (40%)</i>	<i>Effort (20%)</i>	<i>Participation (10%)</i>	<i>Behaviour (10%)</i>	<i>TOTAL MARK (100%)</i>
November	6	2	1	1	10
Annual	12	4	2	2	20