

GCSE Chemistry – Paper 2 Topics – TUESDAY 11th JUNE

Use your Y9, Y10 & Y11 exercise books , the online textbook and resources on Kerboodle to help you revise

Rates, Equilibrium & Organic Chemistry

Rates and Equilibrium

1. Rate of Reaction
2. Collision Theory & Surface Area
3. The Effect of Temperature
4. The Effect of Concentration and Pressure
5. The Effect of Catalysts
6. Reversible Reactions
7. Energy & Reversible Reactions
8. Dynamic Equilibrium
9. *Altering Conditions (HT only)*

Crude Oil and Fuels

1. Hydrocarbons
2. Fractional Distillation of Oil
3. Burning Hydrocarbon Fuels
4. Cracking Hydrocarbons

Organic Reactions

1. Reactions of Alkenes
2. Structures of Alcohols, Carboxylic Acids and Esters
3. Reactions and Uses of Alcohols
4. Carboxylic Acids and Esters

Polymers

1. Addition Polymerisation
2. *Condensation Polymerisation (HT)*
3. Natural Polymers

4. DNA

Analysis and the Earth's Resources

Chemical Analysis

1. Pure Substances & Mixtures
2. Analysing Chromatograms
3. Testing for Gases
4. Tests for Positive Ions
5. Tests for Negative Ions
6. Instrumental Analysis

The Earth's Atmosphere

1. History of Our Atmosphere
2. Our Evolving Atmosphere
3. Greenhouse Gases
4. Global Climate Change
5. Atmospheric Pollutants

The Earth's Resources

1. Finite and Renewable Resources
2. Water Safe to Drink
3. Treating Waste Water
4. *Extracting Metals from Ores (HT only)*
5. Life Cycle Assessments
6. Reduce, Reuse, Recycle

Using Our Resources

1. Rusting
2. Useful Alloys
3. The Properties of Polymers
4. Glass, Ceramics and Composites
5. Making Ammonia – the Haber Process

6. *The Economics of the Haber Process (HT only)*

7. Making Fertilisers in the Lab
8. Making fertilisers in Industry

Required Practicals

1. Investigating the effect of concentration on rate of reaction
2. Calculate R_f values
3. Use chemical test to identify unknown compounds
4. Purify and test water