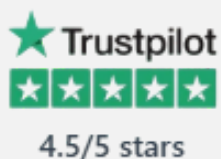
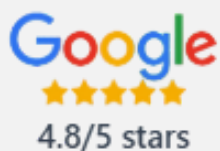


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CHEMISTRY KNOWLEDGE KEEPERS

MODULE -1 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

GROUPS OF THE PERIODIC TABLE

- Properties of Group 0
- Properties of Group 1
- Properties of Group 7
- Reactions of the halogens: including displacement practical
- Ionic equations: reactions of Group 1 and Group 7



CHEMISTRY

KNOWLEDGE KEEPERS

MODULE -1 HOW DO WE EXPLAIN HOW SUBSTANCES BEHAVE?

CHEMICAL ANALYSIS

- Instrumental analysis and flame tests: crimson for lithium
- Chemical tests: aqueous ions (including magnesium)
- Identifying unknown substances (including magnesium)
- Ionic equations: aqueous ion tests
- Instrumental analysis and flame tests: red for lithium
- Chemical tests: aqueous ions (including zinc)
- Identifying unknown substances (including zinc)
- Mass spectrometry



CHEMISTRY

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MODULE -2 WHAT ARE THINGS MADE OF?

INDUSTRIAL CHEMISTRY

- Transition metals
- Corrosion and its prevention: including half equations
- Introduction to reversible chemical reactions
- Chemical equilibrium
- Industrial equilibria: Haber Process
- Factors affecting equilibrium
- Making ammonia
- NPK fertilisers, agriculture and other applications
- Comparing materials and their properties



ORGANIC CHEMISTRY

- Alkenes
- Alcohols
- Chemical tests involving alkanes, alkenes and alcohols
- Carboxylic acids and esters
- Addition polymerisation
- Condensation polymerisation
- Natural polymers



CHEMISTRY

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MODULE -3 HOW CAN SUBSTANCES BE MADE AND CHANGED?

USING EARTH'S RESOURCES

- Earth's resources and sustainable development
- Fractional distillation of crude oil
- Cracking fractions of crude oil
- Developing a reactivity series for metals
- Alternative methods of extracting metals: phytomining and bioleaching
- Life cycle assessments (LCAs)



ELECTROLYSIS

- Principles of electrolysis
- Electrolysis of molten salts
- Electrolysis: extracting aluminium
- Electrolysis of aqueous solutions
- Electrolysis: brine
- Electrolysis: purifying copper
- Half equations: electrolysis
- Electric cells and batteries
- Fuel cells



CHEMISTRY

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MODULE -4 HOW CAN WE EXPLAIN CHANGES IN THE AIR, LAND AND OCEANS?

ATMOSPHERE AND CHANGING CLIMATE

- Earth's atmosphere (approximate values)
- Evolution of Earth's atmosphere
- Burning hydrocarbons
- Atmospheric pollutants
- Acid rain and chemical weathering
- Greenhouse gases
- Carbon dioxide in the atmosphere
- Global climate change and the effects
- Human activity
- Ozone layer: a story of global success



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