

A LEVEL CHEMISTRY

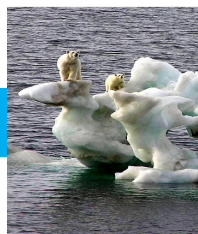
CHEMISTRY — THE STUDY OF THE ELEMENTS.
THE COMPOSITION, PROPERTIES AND REACTIONS OF SUBSTANCES.

THERE ARE THREE MAIN BRANCHES OF CHEMISTRY:

PHYSICAL CHEMISTRY - the relationship between the physical properties of substances and their chemical structure, properties and reactions.

TOPICS STUDIED IN YEAR ONE WILL BE;

- Atoms and reactions
- Electrons, bonding and structure
- Enthalpy changes, reaction rates and equilibria



INORGANIC CHEMISTRY—the study of the elements and all their compounds, except those containing carbon.

TOPICS STUDIED IN YEAR ONE WILL BE;

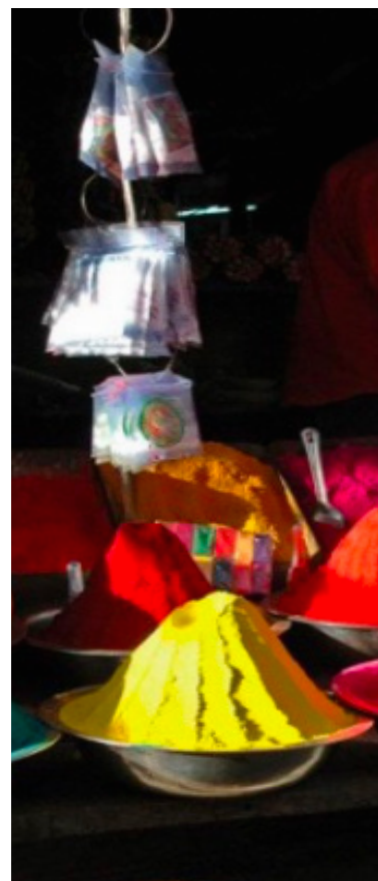
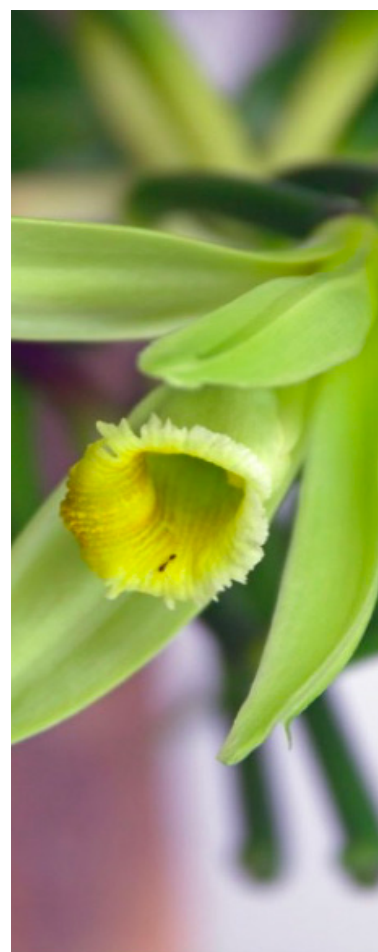
- The Periodic Table
- Group 2 and Group 7



ORGANIC CHEMISTRY—the study of carbon compounds.

TOPICS STUDIED IN YEAR ONE WILL BE;

- Basic concepts and hydrocarbons
- Alcohols and halogenoalkanes
- Infrared spectroscopy and mass spectrometry



A LEVEL CHEMISTRY

MODULE M1 PRACTICAL SKILLS IN CHEMISTRY

- 12 Practical assessment groups covering a wide range of skills.

Minimum of 12 assessed practicals



MODULE M2 ATOMS, BONDS AND GROUPS

- Atoms and reactions
- Electrons, bonding and structure

Two internal assessments

MODULE M3 CHAINS, ENERGY AND RESOURCES

- Basic concepts and hydrocarbons
- Alcohols, halogenoalkanes and analysis
- The Periodic Table — Group 2 and Group 7
- Energy

Four internal assessments



SUMMER TASKS

- **CHOOSE A QUESTION RELATED TO THE BRANCHES OF CHEMISTRY YOU WILL STUDY**
- **MAKE A POWERPOINT OR POSTER EXPLAINING THE CHEMISTRY ANSWER**
- **PREPARE TO PRESENT TO GROUP**

Do you know the answers?	Why was The Hatter mad?	Why does your bedroom get untidy?	Why does ice float?	Why is copper sulphate blue?
Why do sweaty socks smell cheesy?	Why does nail varnish remover remove nail varnish?	DNA?	Why are old street lamps orange?	Why does sugar dissolve in tea?
Why are lemons sour?	Can you turn lead into gold?	Where might you smell putrescine or cadaverine?	Why can a pond-skater skate?	PTFE?
Why do onions make you cry?	Why do oranges taste different to lemons?	Why are diamonds forever?	CFC?	Chemistry has the answers.

Please have these tasks ready for September