

Organic Chemistry

Students will develop an appreciation of how chemists are able to take organic molecules and modify them in many ways to make new and useful materials such as polymers, pharmaceuticals, perfumes and flavourings, dyes and detergents.

Home Learning:

Look-cover-write-check one knowledge organiser page every week. Ensure the content on the knowledge organiser is learnt in preparation for a quiz given by your classroom teacher.

Key Questions: (A list of key questions)

Organic Chemistry

- How is crude oil separated?
- What is complete and incomplete combustion?
- What is cracking?
- What is polymerisation?
- What are alkenes?
- What is the structure and functional groups of alcohols?
- What is the structure and functional groups of carboxylic acids?
- What is the structure and functional groups of esters?

Diagnosis

& Smith Proforma

- Recall Quiz from knowledge organisers
- Short Diagnosis Test
- Feedback from teachers marking

Therapy

- DIRT lesson – Respond to teachers marking.
- Pixl 'Know It' slides and questions.

Students will: (Success Criteria)

Organic Chemistry

- Be able to describe what is crude oil and explain how it is separated.
- Be able to describe and compare complete and incomplete combustion.
- Be able to describe the processes of cracking and polymerization?
- Be able to describe the reactions of alkanes.
- Be able to describe the functional groups, structure and reactions of alcohols, carboxylic acids, and esters?

Testing

- Final end of topic test after each topic