



Use this alongside our Walkthrough Guides to tick off the concepts you're confident with to plan your study and find areas of improvement!

Functional Groups

- I can identify, draw and name alkanes, alkenes and alkynes
- I can identify, draw and name carboxylic acids and amines
- I can define and describe the terms primary, secondary and tertiary
- I can identify, draw and name haloalkanes
- I can identify, draw and name alcohols

Isomers

- I can define the term **isomer**
- I can define the term **constitutional (structural) isomers**
- I can define the term **geometric isomer** (cis/trans isomers)
- I can describe what is required for a molecule to exist as geometric isomers (cis/trans isomers)

Reactions

- I can describe **addition reactions** in terms of:
 - Which molecules undergo addition reactions
 - What happens during addition reactions
 - The reagents used to perform addition reactions
 - I can describe and explain why sometimes there are two possible products in an addition reaction
 - I can predict the major and minor products of an addition reactions using Markovnikoff's rule
- I can describe **elimination reactions** in terms of:
 - Which molecules undergo elimination reactions
 - What happens during elimination reactions
 - The reagents used to perform elimination reactions
 - I can describe and explain why sometimes there are two possible products in an elimination reaction
- I can predict the major and minor products of an addition reactions using the reverse Markovnikoff's rule (Saytseff's rule)
- I can describe **oxidation reactions** in terms of:
 - What molecules undergo oxidation reactions
 - What happens during oxidation reactions
 - The reagents that used to perform oxidation reactions
 - The possible products of oxidation reactions
- I can describe **substitution reactions** in terms of:
 - What molecules undergo substitution reactions
 - What happens during substitution reactions
 - The reagents used to perform substitution reactions
- I can describe, explain and predict the products of neutralisation reactions of carboxylic acids
- I can describe, explain and predict the products of neutralisation reactions of amines

Polymers

- I can define the term addition polymer
- I can predict the polymer that would be formed given monomers
- I can draw a polymer, given the monomer

Properties

- I can identify if an organic compound will be polar or nonpolar
- I can describe the observations when both polar and nonpolar liquids are added to water
- I can describe whether a compound will have a low or high melting/boiling point

Identification Tests

- I can describe and explain which compounds will react with red and/or blue litmus paper
- I can describe and explain how alcohols and alkenes can be distinguished from other compounds
- I can describe and explain how bromine water can be used to distinguish between alkenes and alkanes