

14–16 years

Crude oil

Unscrambling definitions

Unscrambled definitions

A **saturated hydrocarbon** is a hydrocarbon with only single bonds between the carbon atoms, such as an alkane.

An **alkane** is a hydrocarbon with the general formula C_nH_{2n+2} , such as methane, ethane, propane and butane.

A **hydrocarbon** is a compound that is made from the elements carbon and hydrogen only.

A **monomer** is a small molecule that can react with many other small molecules to form a polymer.

Unscrambled definitions continued

A **polymer** is a very large molecule made by joining together lots of small molecules.

A **repeat unit** is a small part of a polymer which, if repeated, would produce the complete polymer chain.

A **fraction** is a mixture of hydrocarbons with similar boiling points that condense together during fractional distillation of crude oil.

A **homologous series** is a series of organic compounds with the same general formula, which react in a similar way, such as alkanes.

Connection completion

Choose the letter from the table below that contains the correct row of connective words to complete these sentences:

Polymerisation is the addition of many monomers together _____ polymer formation. Ethene is a hydrocarbon _____ it contains only hydrogen and carbon atoms. The C=C double bond in ethene means it can undergo polymerisation and polythene is _____ formed which is a saturated hydrocarbon.

A	resulting in	since	consequently
B	since	although	therefore
C	causing	because	conversely
D	thus	so	somehow

Connection completion: completed sentences

Polymerisation is the addition of many monomers together **resulting in** polymer formation. Ethene is a hydrocarbon **since** it contains only hydrogen and carbon atoms. The C=C double bond in ethene means it can undergo polymerisation and polythene is **consequently** formed which is a saturated hydrocarbon.