

Knowledge check

Subject area: Organic chemistry

Level: 14–16 years (Higher)

Source: rsc.li/2GRWsij

Topic: Addition polymerisation

1. This question is about molecules in the table.

Complete the table.

	H H C-C C H H H H n	H C=C H	H H H H H H H C C C C C H H
Tick if a polymer			
Name of substance			
Unsaturated or saturated			
Observation when orange bromine water added			

2. This question is about the molecule below.



a) Name the molecule.

Organic chemistry in context: Addition polymerisation (H)





b) Draw a section of the polymer in which two repeating units are shown bonded together.

- c) What is the name of the polymer in part b)
- d) Describe what happens to the carbon double bond in the molecule in part a) when it makes a polymer.

- e) What type of polymerisation occurs to make the polymer in part b)?
- 3. The equations below show monomers forming polymers.

Complete each equation by drawing the structure of the monomer or polymer in the box.









d)



- Polymers are very useful, but there are problems associated with their use.
 Briefly describe why each of the following is a problem.
- a) The resources needed to make them.
- b) Disposal in landfill sites.
- c) Disposal by combustion.