## A level Module 6

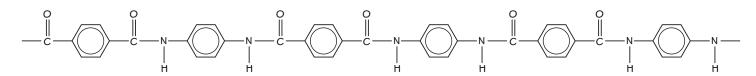
## **Condensation polymers**

1 Give a similarity and a difference between addition polymerisation and condensation polymerisation.

Had a go 🗌 Nearly there [



2 A diagram of part of a molecule of the polymer Kevlar<sup>™</sup> is shown. Kevlar<sup>™</sup> has many uses due to its high strength to weight ratio. Kevlar<sup>™</sup> is synthesised from a diamine and a diacylchloride.



(a) What type of polymerisation forms Kevlar?

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(1 mark)

Nailed it!

(b) Draw the two monomers required to form Kevlar<sup>™</sup>, giving the name for the diamine only.

diamine	diacylchloride
•••••	

## (3 marks)

(c) What other product is formed when Kevlar is synthesised?

**3** The molecule 2-hydroxypropanoic acid can be polymerised.

Draw a molecule of the monomer and the repeat unit of the polymer, and give the type of polymerisation.

Think how the two functional groups in the monomer would react with each other.