

Name \_\_\_\_\_ Date \_\_\_\_\_

## Worksheet 9.1: Polymers molecular models practical

- 1 Using molecular model kits, build the three following molecules: ethene ( $\text{C}_2\text{H}_4$ ), propene ( $\text{C}_3\text{H}_6$ ), chloroethene ( $\text{C}_2\text{H}_3\text{Cl}$ ).
- 2 Draw the Lewis structure of these molecules.

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- 3 What do these molecules have in common?

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- 4 Using molecular model kits, build the three molecules of ethene and then join them together.
- 5 Explain, in term of bonds broken and bonds formed, what has happened when you join these ethene molecules together.

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- 6 Draw the repeating unit for poly(propene).

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- 7 Draw three repeating units of poly(chloroethene) joined together.

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