

### C1 Topic 5 other uses of crude oil revision

<b>Cracking and testing for alkenes (and general alkenes)</b>	
1. Why do we crack long chain hydrocarbons?	To produce smaller, more useful hydrocarbons
2. What are the products of cracking?	Alkanes and alkenes
3. What conditions do we need for cracking?	Heating and passing the vapour over a hot catalyst or mixing with steam and heating
4. What is the test for alkenes and what is its result?	React with bromine water. It turns it from orange to colourless
5. Are alkenes saturated or unsaturated?	Unsaturated
6. What is the general formula for an alkene?	$C_2H_4$
<b>Polymers</b>	
7. To make a polymer lots of ..... join together	Monomers
8. Name the monomer used to make poly(ethene)	Ethene
9. What is the problem with many polymers?	They are not biodegradable
10. What does biodegradable mean?	Can be broken down by micro-organisms
11. Name the polymer made from styrene	Poly (styrene)
<b>Biofuels</b>	
12. How would you produce ethanol by hydration of ethene?	React with steam with a catalyst
13. What does fermentation to produce ethanol need?	Sugar and yeast
14. Fermentation of yeast produces which two things?	Carbon dioxide and ethanol