

**Chemistry Department - Separate Science
Key Stage Four**

NAME: _____

Topic 1: Organic Chemistry

Use traffic lights to assess what you know now, and again at the end of this topic	Start	End
1) I can write the molecular formula for alkanes, alkenes (ethene and propene) and alcohols (methanol and ethanol)		
2) I can name and write full structural formula for alkanes (up to C ₅), alkenes (ethane and propene) and the alcohols (methanol and ethanol)		
3) I can explain what isomers are and can write the structural formulae for the chain isomers of alkanes for C₄ and C₅		
4) I can explain what is happening in the addition reactions of alkenes with hydrogen, bromine and bromine water and can explain what is meant by the term 'unsaturation'		
5) I can write word and balanced symbol equations for the reactions of alkenes with hydrogen, bromine and bromine water		
6) I can explain what an enzyme is and how it is affected by temperature		
7) I can explain how ethanol is made, the conditions used and how to obtain it from the reaction mixture		
8) I can write a word and symbol equation for the production of ethanol from sugars by fermentation		
9) I know the uses of ethanol and can evaluate its potential use as a fuel		
10) I can discuss the social, economic and environmental impact of the use of alcohol in drinks		
11) I can use the fire triangle to suggest methods of fire prevention		
12) I can explain what happens to ethanol when exposed to air		
13) I know how to chemically test for carboxylic acids		

Your teacher will read through the above statements with you, and elaborate on them slightly. Use the following key to colour the boxes to show how confident you are with your knowledge and understanding at the start of the unit. Hopefully when you revisit the sheet on the completion of the unit you will have made significant progress!

Green - I fully understand and could explain this to other people with ease.

Amber - I can remember some of this, but not enough to fully explain it.

Red - I do not understand this at all, or have never heard of it.

