Chemistry Department  *Yr Adran Gemeg*	**Chemistry 1** **Topic 6** **<u>The Production and Uses of Fuels and Plastics</u>**	**<u>Red</u> – I don't understand or have never heard of this.** **<u>Amber</u> – I can remember some of this but couldn't explain it** **<u>Green</u> – I fully understand this and could explain it to other people**

Cemeg 1: Pwnc 6: *<u>Cynhyrchu a defnyddio tanwyddau a phlastigion</u>*	Start	End
1) I understand that crude oil is a complex mixture of hydrocarbons that was formed over millions of years from the remains of simple marine organisms		
2) I appreciate that crude oil is a finite resource and that decisions made about its uses have global social, economic and environmental impact		
3) I know that crude oil is separated into less complex mixtures, called fractions, which contain hydrocarbons with boiling points in the same range		
4) I understand that while most fractions are used as fuels, others are further processed by cracking to make small, reactive molecules called monomers, which can be used to make plastics		
5) I know that small reactive molecules called monomers are joined together to form polymers in a process known as polymerisation		
6) I understand that many plastics, including polythene, PVC, PTFE and polystyrene, are made by polymerisation		
7) I can recall the general properties of plastics		
8) I can explain the uses of given plastics in terms of their properties		
9) I can discuss and explain the environmental issues relating to the disposal of plastics in terms of their non-biodegradability and increasing pressure on landfill for waste disposal		
10) I understand how recycling plastics addresses the issues in 9)		
11) I appreciate the need to carefully manage the use of natural resources such as oil		