



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

NAME: _____
Topic 9: Evolution and maintenance of the atmosphere and geological process

Use traffic lights to assess what you know now, and again at the end of this topic	Start	End
1) I can explain how the changes in the composition of the atmosphere have occurred		
2) I know what the accepted explanation for the origin of the atmosphere is and also the changes to it over geological time		
3) I can explain how respiration, combustion and photosynthesis maintain the levels of oxygen and carbon dioxide in the atmosphere		
4) I can use the development of the theory of continental drift to explain the current theory of plate tectonics		
5) I can evaluate the social, economic and environmental impact of the combustion of fossil fuels		
6) I can use evidence about the location of earthquakes and volcanoes to suggest that the Earth's lithosphere is composed of a number of large pieces called plates		
7) I can draw the rock cycle		
8) I can explain how new igneous rock is formed		
9) I know how rocks are deformed and/or recycled		

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.

