

In careers

Learning Journey – C9 Chemistry of the Atmosphere



What have I done previously in my learning journey?											
Previously You have learnt previously about the Earth and the atmosphere. This has involved learning about: the composition of the Earth the structure of the Earth the rock cycle and the formation of igneous, sedimentary and metamorphic rocks Earth as a source of limited resources and the efficacy of recycling the carbon cycle the composition of the atmosphere the production of carbon dioxide by human activity and the impact on climate. In this topic You will learn that the Earth's atmosphere is dynamic and forever changing. The causes of these changes are sometimes man-made and sometimes part of many natural cycles. Scientists use very complex software to predict weather and climate change as there are many variables that										cks s of these sts use	
can influence this.											
We will develop our learning by studying the following each lesson:								RAG	RAG Skills in Science checklist		
C9.01 Evolution of the Atmosphere Describe the structure of the earth. Describe the current theory of how scientists think the atmosphere evolved. Recall the approximate proportions of gases in the atmosphere today. C9.02 Greenhouse Gases and Carbon Footprints Recall how greenhouse gases keep the earth warm. Describe how human activity is leading to climate change. Describe what a carbon footprint is. Evaluate the reasons for trying to reduce carbon footprints. C9.03 Atmospheric Pollutants Describe what is produced when fossil fuels are burnt. Describe the causes and effects of acid rain.								Scientific Methods Practical Number Skills Application Communication Practical Number Skills Application Communication Scientific Methods Practical Number Skills Application Communication Scientific Methods Practical Number Skills Application Communication Commu			
Key Vocabulary											
Atmosphere	Volcano	cano Algae		Photosynthesis	Greenhouse effect	Climate	Carbon dioxide		bon print	Combustion	
Particulates Carbon monoxid		l	Acid rain		enect	change	uloxide	1000	print		
Future Learning Further studies in AS level Biology looks at the impact of different factors on biodiversity within a											

habitat. Some of these factors may be cause by human activity, for example the burning of fossil

The problems caused by increased levels of air pollutants require scientists and engineers to

fuels and the release of atmospheric pollutants.

develop solutions that help to reduce the impact of human activity.