

CHEMISTRY

Learning objectives I can:	I can do this very well	I can do this quite well	I need to do more work on this
1.1 Recall that the gases produced by volcanic activity formed the Earth's early atmosphere			
1.2 Recall that the early atmosphere contained:			
a little or no oxygen			
b a large amount of carbon dioxide			
c water vapour and small amounts of other gases			
1.3 Explain why there are different sources of information about the development of the atmosphere which makes it difficult to be precise about the evolution of the atmosphere			
1.4 Describe how condensation of water vapour formed oceans			
HSW 4 Identify questions that science cannot currently answer, and explain why these questions cannot be answered			
1.5 Describe how the amount of carbon dioxide in the atmosphere was reduced by:			
a the dissolution of carbon dioxide into the oceans			
b the later incorporation of this dissolved carbon dioxide into marine organisms which eventually formed carbonate rocks			
1.6 Explain how the growth of primitive plants used carbon dioxide and released oxygen by photosynthesis and consequently the amount of oxygen in the atmosphere gradually increased			
HSW 3 Describe how phenomena are explained using scientific theories and ideas			
1.7 <i>Investigate the proportion of oxygen in the atmosphere</i>			
1.8 Describe the current composition of the atmosphere and interpret data sources showing this information			
1.9 Demonstrate an understanding of how small changes in the atmosphere occur through:			
a volcanic activity			
b human activity, including the burning of fossil fuels, farming and deforestation			
HSW 14 Describe how scientists share data and discuss new ideas, and how over time this process helps to reduce uncertainties and revise scientific theories			