Review C1.7 Changes in Earth and atmosphere

Can you…?	☺	😐	☹
C1.7.1 The Earth's crust			
Recognise that the Earth's crust, atmosphere and oceans are the only sources of minerals and other resources that humans need			
Outline the structure of the Earth and the relative sizes of the three major parts			
Describe how the crust and upper mantle are divided into tectonic plates			
Explain why the tectonic plates move at a few centimetres per year			
Describe some of the effects of tectonic plate movements, particularly at plate boundaries			
Describe how Wegener's theory explained the formation of mountains described continental drift			
Explain why Wegener's theory of continental drift was not generally accepted for many years, and compare it to the 'shrinking Earth' theory			
Explain why scientists cannot accurately predict when earthquakes and volcanic eruptions will occur			
C1.7.2 The Earth's atmosphere			
Outline the proportions of the main gases in the atmosphere, as they have been for 200 million years			
Describe how volcanic activity in the first billion years of the Earth's existence released gases that formed the early atmosphere and oceans			
Outline one theory for the formation of the atmosphere, including the gases thought to be found in the early atmosphere			
Explain and evaluate theories of the changes that have occurred and are occurring in the Earth's atmosphere, when given information			
State that there are many theories as to how life was formed millions of years ago			
(HT) Outline the theory involving the interaction between hydrocarbons, ammonia and lightning, including Miller and Urey's experiment			
(HT) Describe why we do not know how life was first formed			
Describe how the oxygen in the atmosphere is produced			
Describe how carbon dioxide in the air has been and continues to be removed from the atmosphere			
Explain how the oceans act as reservoirs for carbon dioxide, and how increased dissolving of carbon dioxide affects oceans			
Explain and evaluate the effects of human activities on the atmosphere			
Explain how burning fossil fuels affects the concentration of carbon dioxide in the atmosphere, and the major effect of this			
(HT) Explain how air can be separated using fractional distillation			