

## C1 Topic 7 the earth revision

<b>Earth's Structure (and rocks)</b>	
1. List the 3 layers of the Earth	Core, mantle, crust
2. What is the crust broken into?	Tectonic plates
3. Name 2 events that occur at plate boundaries	Volcanoes, earthquakes
4. Which is the largest/thickest layer of the earth?	The mantle
5. Which is the smallest/thinnest layer of the earth?	The crust
6. Which layers make up tectonic plates?	The crust and upper part of the mantle
7. Name 2 sedimentary rocks	Limestone, fossil fuel
8. What is limestone made from?	Shells and skeletons of marine organisms
9. What are fossil fuels made from?	Remains of plants and animals
10. Why don't governments always act upon to scientist's predictions of earthquakes?	They can't predict exactly when it will happen, it costs a lot of money and takes a lot of time to evacuate everyone
<b>Continental Drift</b>	
11. Name Wegener's theory	Continental drift
12. What causes the plates to move?	Convection currents
13. What type of process releases heat?	Radioactive
14. How far do the plates move each year?	A few cm
<b>Earth's Atmosphere</b>	
15. List the gases which make up the atmosphere, with their percentages	Nitrogen 80% oxygen 20% carbon dioxide less than 1%
16. What made the first atmosphere?	Volcanoes
17. Where did the oceans come from?	Condensation of water vapour
18. State 2 ways plants and algae have changed the atmosphere	Increase oxygen, decrease CO <sub>2</sub>
19. Which planets have atmospheres which are like the early Earth atmosphere	Mars, Venus
20. What happens to carbon dioxide in the oceans?	Dissolves
21. How are humans increasing the concentration of carbon dioxide in the atmosphere?	Burning fossil fuels increase CO <sub>2</sub>
<b>Higher Only</b>	
22. Why did Miller and Urey use methane, ammonia and hydrogen for the earth's early experiment?	It is what they thought was present in the early atmosphere
23. Why does Miller and Urey's experiment only provide weak evidence?	We don't know for sure what gases were present, no one was there to see what happened
24. Miller and Urey's experiment suggested how ..... were formed	Amino acids

25. What theory did the Miller and Urey experiment support?	The primordial soup theory
26. What did the primordial soup theory require to produce amino acids?	Hydrocarbons, ammonia and lightning
27. What is the process called of how we can separate air and why is this method possible?	Fractional distillation. The gases in the air have different boiling points