

## C1 Topic 7 the earth revision

| <b>Earth's Structure (and rocks)</b>  |  |
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| 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 CO2  |
| 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 CO2  |
| <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 .....<br>..... were formed                       | Amino acids  |

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| 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 |