C7 – Atmosphere Core Questions

	Question	Angwor
1	Question What is the approximate properties of	Answer
1	What is the approximate proportion of	78%
	nitrogen in Earth's current	
	atmosphere?	0.107
2	What is the approximate proportion of	21%
	oxygen in Earth's current atmosphere?	
3	Which gases exist in small proportion in	Carbon dioxide, water vapour,
	the Earth's current atmosphere?	argon
4	What produced the gases present in	Volcanoes
	Earth's early atmosphere?	
5	What is the approximate age of	About 4.6 billion years
	planet Earth?	
6	Why has the amount of oxygen in the	Due to plants and algae
	atmosphere increased over time?	photosynthesising
7	How has the amount of carbon	Decreased
	dioxide changed over time?	
8	Why has the amount of carbon	Photosynthesis and it dissolved in
	dioxide decreased over time?	the ocean and became locked
		qu
9	How did the world's oceans form?	The Earth's temperature cooled,
		causing water vapour in the air
		to condense
10	How did algae and plants reduce	By photosynthesising
	levels of carbon dioxide in Earth's early	, , , , ,
	atmosphere?	
11	How is carbon locked up in rocks?	Small animals used it to make
	·	shells, which eventually become
		sedimentary rock when they die
12	How has the amount of water vapour	Decreased
	in the atmosphere changed over	
	time?	
13	Why has the amount of water vapour	It has condensed to form oceans
	in the atmosphere decreased?	
14	What is the carbon cycle?	Process in which carbon atoms
		travel from the atmosphere into
		organisms in the earth and then
		back into the atmosphere over
		and over again in a cycle.
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15	Give two ways carbon is removed from the atmosphere	Photosynthesis, dissolves in oceans
16	Give two ways carbon is added to the	Respiration, combustion of fossil fuels
17	atmosphere What is the generic word equation for the combustion of fossil fuels	Fuel + oxygen → Carbon dioxide + water
18	What is the greenhouse effect?	When greenhouse gases in the atmosphere trap IR energy, increasing the temperature of Earth
19	Name three greenhouse gases	Water Vapour, Carbon Dioxide and Methane
20	What human activities increase carbon dioxide levels?	Deforestation and burning fossil fuels
21	What is the name given to the increasing average temperature of the Earth?	Global warming
22	Name some effects of climate change	Increased flooding, changes in rainfall patterns, frequency of storms, increased deserts
23	What is the name given to the total amount of carbon dioxide and other greenhouse gases emitted over the full lifecycle of a product, service or event	Carbon footprint
24	What is a carbon sink?	Areas of vegetation, the ocean or soil, which absorb and store carbon
25	What is recycling?	Processing material so that it can be used again
26	What are some disadvantages of recycling?	Requires sorting, money, energy input and can only be done a limited number of times
27	What is a polymer?	A molecule made of thousands of smaller molecules in a repeating pattern.
28	What is a composite?	A combination of two or more materials with different properties