

**The Earth's early atmosphere**

- 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 & a large amount of carbon dioxide & 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
- 1.5 Describe how the amount of carbon dioxide in the atmosphere was reduced by:
  - a) the distribution of carbon dioxide into the oceans & the later incorporation of the dissolved carbon dioxide into marine organisms which eventually formed calcareous rocks
  - b) 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
- 1.7 Investigate the proportion of oxygen in the atmosphere
- 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 & human activity including the burning of fossil fuels, farming and deforestation

**1. The composition of the early atmosphere**



Figure 1.1: The composition of the early atmosphere

Figure 1.2: The composition of the early atmosphere

Year	CO <sub>2</sub> (ppm)	O <sub>2</sub> (ppm)	N <sub>2</sub> (ppm)
1750	280	210,000	78,710
1850	290	210,000	78,710
1950	310	210,000	78,690
2000	370	210,000	78,630



- 2. Complete the sentence by adding a word (B) in the box next to your answer
- a) The percentage of carbon dioxide in the Earth's atmosphere today is \_\_\_\_\_.

- A greater than 10%
- B 10%
- C 21%
- D less than 10%

b) The percentage of carbon dioxide in the Earth's atmosphere today is less than that in the Earth's earliest atmosphere. Explain what has caused the percentage of carbon dioxide to decrease.

\_\_\_\_\_

\_\_\_\_\_

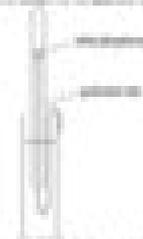
c) Carbon dioxide and other gases in the atmosphere help to keep the Earth warm. What two other gases help the Earth warm?

\_\_\_\_\_

\_\_\_\_\_



- 3. The diagram shows a gas cylinder with a piston. The temperature of the gas inside the cylinder is 20°C. The piston is pushed down so that the volume of the gas is halved. The temperature of the gas is now 40°C. The pressure of the gas is now 1.5 times the original pressure. The gas is now at a pressure of 1.5 atm.



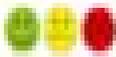
The volume of the gas is now 0.5 of the original volume. The temperature of the gas is now 40°C. The pressure of the gas is now 1.5 times the original pressure. The gas is now at a pressure of 1.5 atm.

Explain how the pressure of the gas is now 1.5 times the original pressure. Use the equation  $p \propto \frac{1}{V}$  to help you.

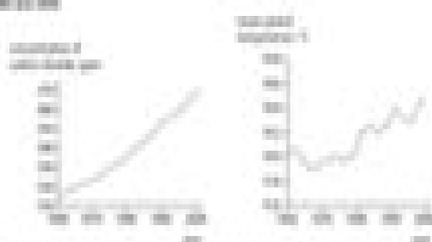
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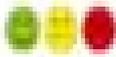
- 4. The graph shows the concentration of carbon dioxide in the atmosphere and the sea level rise since 1850.



Explain why the sea level rise is related to the increase in the concentration of carbon dioxide.

\_\_\_\_\_

\_\_\_\_\_



- 5. a) What is the main source of information about the composition of the early atmosphere?

- A volcanic activity
- B the composition of the early atmosphere
- C the amount of oxygen in the atmosphere
- D the amount of carbon dioxide in the atmosphere

b) The composition of carbon dioxide in the Earth's atmosphere is expected to increase. Explain what would happen to the atmosphere and the climate when carbon dioxide increases.

Explain how carbon dioxide is expected to increase.

\_\_\_\_\_

\_\_\_\_\_

Explain how carbon dioxide is expected to increase.

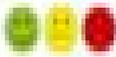
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c) How would the sea level rise if carbon dioxide increases?

\_\_\_\_\_

\_\_\_\_\_



- 6. The diagram shows a gas cylinder with a piston. The piston is pushed down so that the volume of the gas is halved. The temperature of the gas is now 40°C. The pressure of the gas is now 1.5 times the original pressure. The gas is now at a pressure of 1.5 atm.



The volume of the gas is now 0.5 of the original volume. The temperature of the gas is now 40°C. The pressure of the gas is now 1.5 times the original pressure. The gas is now at a pressure of 1.5 atm.

- A greater than 1.5 atm
- B 1.5 atm
- C 2.25 atm
- D less than 1.5 atm

b) Explain why the pressure of the gas is now 1.5 times the original pressure.

\_\_\_\_\_

\_\_\_\_\_

c) Explain how the pressure of the gas is now 1.5 times the original pressure.

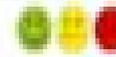
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Explain why the sea level rise is related to the increase in the concentration of carbon dioxide.

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**Yijin Wang**

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