



ST ANDREW'S SECONDARY SCHOOL

NAME

CLASS

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DATE

CHEMISTRY

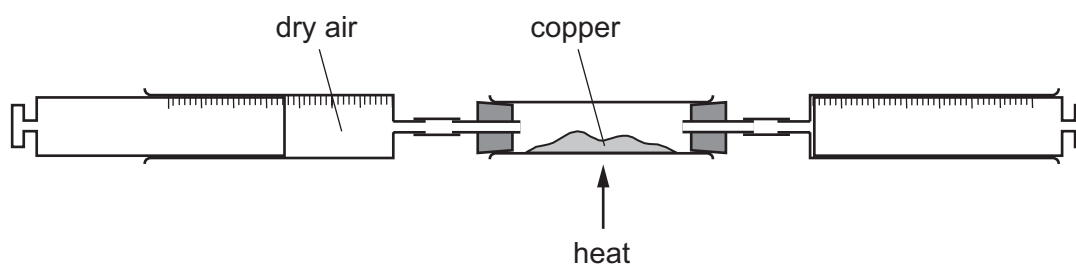


19.1 Air

Assessment for Learning

THE ATMOSPHERE AND ENVIRONMENT

- 1 Dry air is passed over hot copper repeatedly until all the oxygen has reacted.

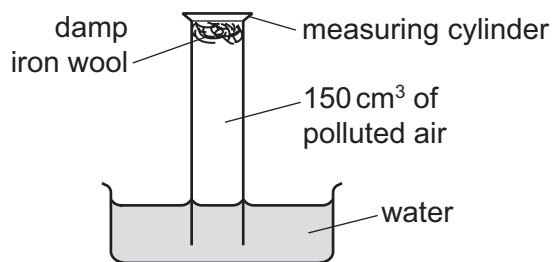


The volume of gas at the end of the reaction is 120 cm^3 .

What is the starting volume of dry air?

- A** 132 cm^3
B 152 cm^3
C 180 cm^3
D 570 cm^3
- 2 What is the correct order of abundance of the gases in air?
- A** Nitrogen $\rightarrow$ Oxygen $\rightarrow$ Argon $\rightarrow$ Carbon dioxide
B Nitrogen $\rightarrow$ Oxygen $\rightarrow$ Carbon dioxide $\rightarrow$ Argon
C Oxygen $\rightarrow$ Nitrogen $\rightarrow$ Argon $\rightarrow$ Carbon dioxide
D Oxygen $\rightarrow$ Nitrogen $\rightarrow$ Carbon dioxide $\rightarrow$ Argon
- 3 Which atmospheric pollutant is produced from the combustion of octane, C_8H_{18} ?
- A** Carbon
B Carbon dioxide
C Carbon monoxide
D Methane

- 4 An experiment to determine the percentage of oxygen in 150 cm^3 of polluted air is shown.



The apparatus is left for one week.

After this time, the volume of gas in the measuring cylinder is 122 cm^3 .

What is the percentage of oxygen, to the nearest whole number, in the polluted air?

- A 19%
 - B 21%
 - C 28%
 - D 81%
- 5 Which gas is **not** present in clean air?
- A Argon
 - B Carbon dioxide
 - C Carbon monoxide
 - D Water vapour