

Answer the following questions on the preparation of oxygen:

- (a) What two chemicals are used to prepare oxygen?
- (b) Name two pieces of equipment used.
- (c) Draw a labelled diagram of the equipment used in this experiment
- (d) Explain how the gas is collected?
- (e) What test can be carried out to identify the gas as oxygen?
- (f) What is a catalyst? Identify the catalyst in this experiment
- (g) Why do we need to wear gloves and goggles when doing this experiment?
- (h) What did you observe when magnesium is burned in air?
- (i) State two properties of oxygen
- (j) Explain how the fire triangle works
- (k) **According to NASA, the gases in Earth's atmosphere include:**
Nitrogen — 78%, **Oxygen** — 21%, **Argon** — 0.93%, **Carbon dioxide** — 0.04%, Trace amounts of neon, helium, methane, krypton and hydrogen, as well as water vapor.
Draw a pie chart, bar chart or similar to display this information