Practical 4 – Chapter 1

Determination of the A_r of lithium

The aim of this experiment is to determine the relative atomic mass of lithium.

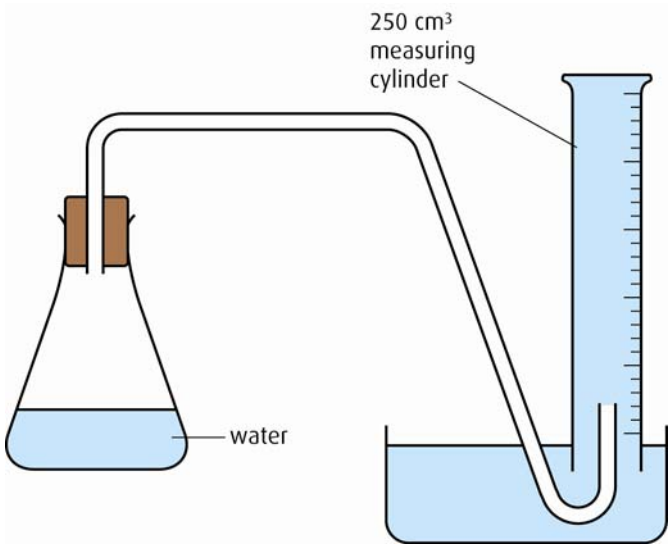
Criteria to be assessed:
- data collection and processing
- conclusion and evaluation.

Safety

- Lithium is corrosive.
- The gas produced in the reaction is highly flammable.
- The solution produced is an irritant to the eyes and the skin.
- Wear eye protection.

What to do

1 Set up the apparatus as shown in the diagram, putting about 100 cm^3 of distilled water in the conical flask. The measuring cylinder should be filled with water.



2 Accurately weigh about 0.1 g of lithium.

3 Remove the bung from the conical flask and drop in the piece of lithium. Replace the bung quickly (**Care!**).

4 Measure the volume of gas produced. Record the temperature and the atmospheric pressure in the laboratory.

