

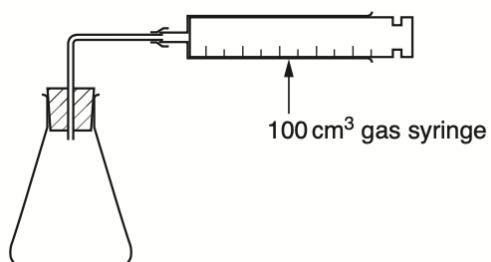
## **AS level Chemistry A**

**H032/02** Depth in chemistry

### **Question Set 2**

2. A student was asked to carry out an experiment to determine the initial rate of reaction of zinc and hydrochloric acid.

The student plans to collect a total of about  $72\text{ cm}^3$  of hydrogen at RTP and to use an excess of zinc.



The student selects the following apparatus:

- the apparatus shown in the diagram
- $100\text{ cm}^3$  measuring cylinder
- stop clock
- 2 decimal place balance

Outline how the student could carry out the experiment and explain how the results could be processed graphically.

Show all working in your calculations.

[6]

**Total Marks for Question Set 2: 6**

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