

Nestor collected three test tubes and put, 2 ml, 4 ml and 6 ml of acid in each. He then filled up the 2 ml and 4 ml volumes with water but added no water to the 6 ml test tube. He then added 3 g of magnesium to each test tube and timed how long it took for the magnesium to stop fizzing. He got 20 s, 60 s and 40 s for each test tube.

- i) How much water did he put in the 2 ml and 4 ml test tubes to make a fair experiment?
- ii) What is the aim of Nestor's experiment?
- iii) Match the times above with the volumes of liquid in each test tube.
- iv) Calculate the rate of reaction for each test tube.