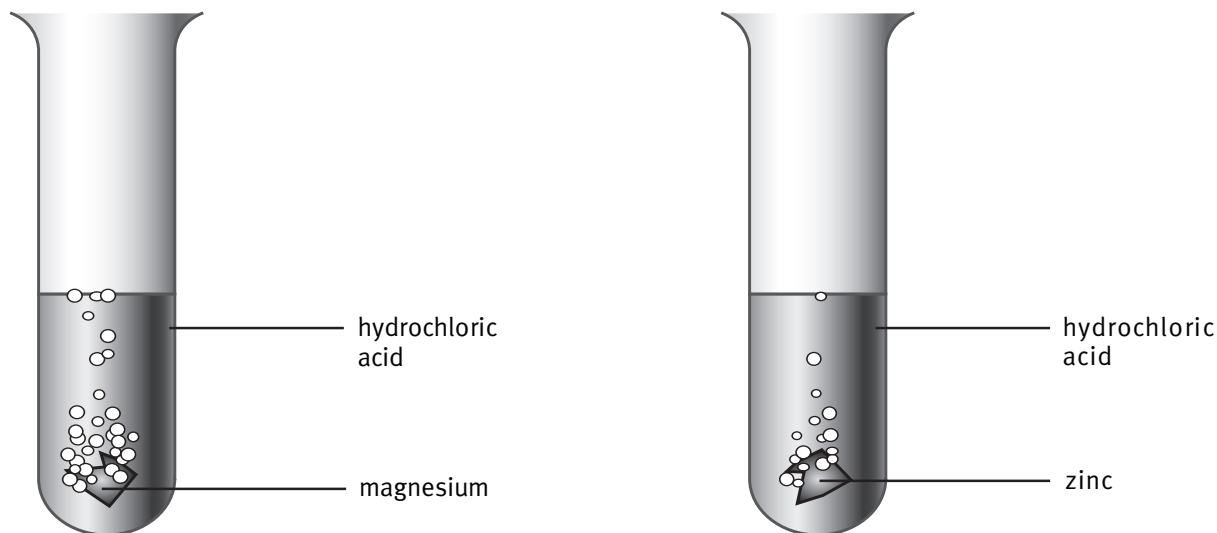


Worksheet 7.6A A fair investigation?



Amina and Sophia know that when some metals are placed in acid there is a chemical reaction and bubbles of hydrogen gas are produced.

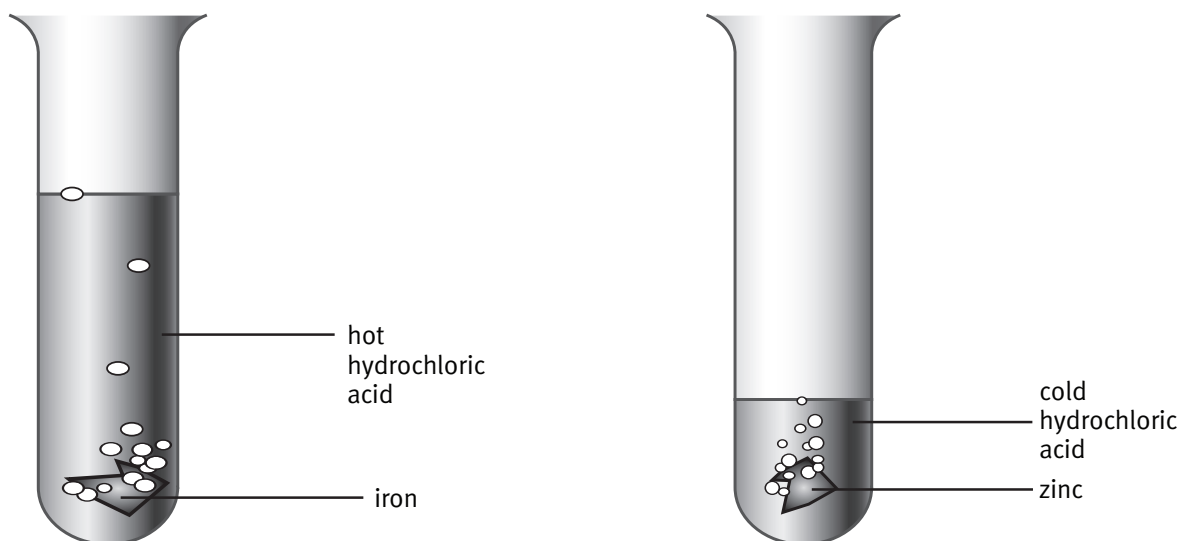


They wonder if hot acid will react more quickly than cold acid.

They add some zinc to cold hydrochloric acid.

Then they add some iron to hot hydrochloric acid.

Both test tubes produce bubbles of gas at the same rate.





1 Do the results provide an answer to the question ‘do hot acids react faster than cold acids’?

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2 State **three** variables that have **not** been kept the same.

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3 Which variable has been kept the same?

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4 Amina and Sophia’s teacher said their investigation did not answer their question, because they did not make it a fair test.

Draw a diagram to show how you would carry out this investigation to make it a fair test.

5 What would you see happen if the hot acid did react more quickly with the metal?

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