Experiment: The affect of Temperature on Reaction Rate

Aim: To investigate the affect of temperature on reaction rate

Equipment:

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| Safety glasses | Stopwatch |
| 2 x 2cm magnesium strips | 2 medium test tubes |
| 20 mL of 1M HCl | Test tube rack |
| ice |  |

Method:

1. Add 10 mL of 1 M hydrochloric acid to a medium test tube and measure the temperature of the acid.
2. Then add 2 cm magnesium and time how long it takes for the reaction to finish.
3. Add 10 mL of 1 M hydrochloric acid in a second medium test tube and sit in a beaker of ice water until the temperature is at 10oC.
4. Add 2 cm magnesium and time how long it takes for the reaction to finish.
5. Record your measurements.

Results:

1. Record your results in a table

Discussion:

1. Describe how temperature affected the rate of reaction.
2. Extension: Explain why the temperature affects the rate of reaction