

YEAR 9 STANDARD SCIENCE

PRAC REPORT:

Factors Affecting Rates of Reaction

Name:

Teacher:

**INSTRUCTIONS**

**Aim:** To investigate how one of the following two factors can affect the rate of reactions.

1. Temperature
2. Surface Area
* In groups of 3-4, choose one of the two factors above and develop a procedure that you can use to carry out the investigation.
* You must complete the following sections in this booklet.
* Introduction
* Variables
* Hypothesis
* Planning
* Results – complete table provided.
* Discussion
* Use the Guideline at the back of this booklet to help you with each section.
* Use pencil and a ruler to construct your table and graph
* Time will be given in class to conduct your experiment.
* You will be given an in-class validation to test your knowledge on the investigation.

**Factors Affecting Rates of Reaction**

**Introduction:**

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**Hypothesis:**

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**Variables:**

Dependent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Independent: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Controlled: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Planning**

Equipment:

Method:

Diagram of equipment setup:

**Results:**

Observations

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**Discussion:**

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Staying on the same topic of factors that effect reaction rate, describe another experiment that could follow on from this one?

**What would be your aim:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**What would be your variables?**

Independent:

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Dependent:

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Controlled:

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**YR 9 REACTION RATE PRAC REPORT: Guideline**

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|  |  |
| **Introduction** | * Factors affecting rate of reaction listed
* Define factor you are testing
* Discuss how this factor increases rate of reaction at a particle level
* Brief outline of experiment
 |
| **Hypothesis** | * Testable statement
* Includes dependent and independent variables
 |
| **Variables** | * Independent
* Dependent
* Controlled – minimum of 3
 |
| **Planning** | * List of equipment you will use
* Write the method and refer to equipment list and diagram in your method
* Draw a diagram of the setup of your equipment
 |
| **Results** | * Written observations

Table * Title
* Correct table set up

Graph * Title
* Appropriate type of graph
* Axes labelled
* Axes units
* Plots accurately
 |
| **Discussion** | * Hypothesis supported/disproved
* Outline the IV’s effect on the DV
* Discuss why this occurred using Science concepts

Suggested future directions* Aim
* Independent
* Dependant
* Controlled
 |