**Experiment Report Template -Active Learning**

**Purpose:** This template structures the recording of hypotheses, procedures, results, and analysis in lab experiments, ensuring comprehensive documentation of the experimental process.

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**Experiment Report Outline**

Experiment Title:
Course:
Date:
Lab Partners:

**1. Hypothesis:**

State your hypothesis. What do you expect to happen during the experiment?

E.g., "*We hypothesize that increasing the concentration of reactant A will speed up the reaction time with reactant B.*"

**2. Materials and Methods:**

List all materials used and describe the procedures followed.

E.g., "*Materials: Beakers, reactant A, reactant B, stopwatch. Procedure: Combine reactants in a beaker and measure the time taken for the reaction to complete*."

**3. Results:**

Record the data collected during the experiment. Include tables, charts, or graphs as needed.

Results Table:

|  |  |  |
| --- | --- | --- |
| Trial | Observations | Reaction Time (s) |
| Trial 1 | [Observations] | [Time] |
| Trial 2 | [Observations] | [Time] |
| Trial 3 | [Observations] | [Time] |
| Trial 4 | [Observations] | [Time] |
| Trial 5 | [Observations] | [Time] |

**4. Analysis:**

Interpret the results. Was your hypothesis supported? What do the results suggest?

E.g., "*The data supports our hypothesis. As the concentration of reactant A increased, the reaction time decreased, indicating a faster reaction rate*."

**5. Conclusion:**

Summarize the experiment’s outcomes and suggest possible future experiments or improvements.

E.g., "*This experiment demonstrates a clear relationship between reactant concentration and reaction speed. Future experiments could explore the impact of temperature on the reaction rate*."