

My Experiment Project Journal

Grades 3-5

Name: _____ Grade: _____

School: _____

Teacher: _____

MY ORIGINAL WONDERING:

BACKGROUND KNOWLEDGE ON TOPIC:

SCIENCE RESEARCH QUESTION:

PREDICTION:

Identify the outcome that you think will most likely occur. Provide reasons that led you to your prediction.

INDEPENDENT VARIABLE:

Identify the one that you will change in the experiment.

DEPENDENT VARIABLE:

Identify what you will be measuring – metric – and identify tool(s) used.

CONTROL GROUP:

Identify the set of trials under “normal” conditions.

SET-UP CONDITIONS/CONSTANTS/CONTROLS:

List all materials and procedures that will remain constant to ensure fair testing.

MATERIALS:

List all materials that will be used including size, quantity and descriptions such that others could duplicate your experiment.

EXPERIMENT PROCEDURES:

List step-by-step procedures in the exact order it was done so that it can be duplicated.

DATA COLLECTION TABLE:

Data is organized in a chart form. Conduct 10 trials using metric measurements.

Trial #	Control Group	Experimental Group #1	Experimental Group #2
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
Average			

GRAPH:

Create a mathematical picture of the data. Plot the averages of each group of data (experimental groups and control group). Remember to label the graph.

Title: _____

Y

X

RESULT STATEMENTS:

Record mathematical statements based on your analysis of the data collection/graph. What does the data show? Provide at least three statements.

EXPERIMENT EXPLANATION:

Summarize your findings. Explain whether or not your prediction was correct using evidence from your findings.

REAL WORLD USES:

Describe ways, places, or situations where the information from your experiment might be useful. Provide at least three examples.

Dated Narrative: Record daily reflections on the experiment process. What are you working on? What observations are you making? What is going well? How are you overcoming barriers?

Date	Reflections

