EXPERIMENT REFLECTIONS: (Write a paragraph which includes thoughts, concerns, discoveries, or further questions to explore. What might you do differently next time?)

_____
_____
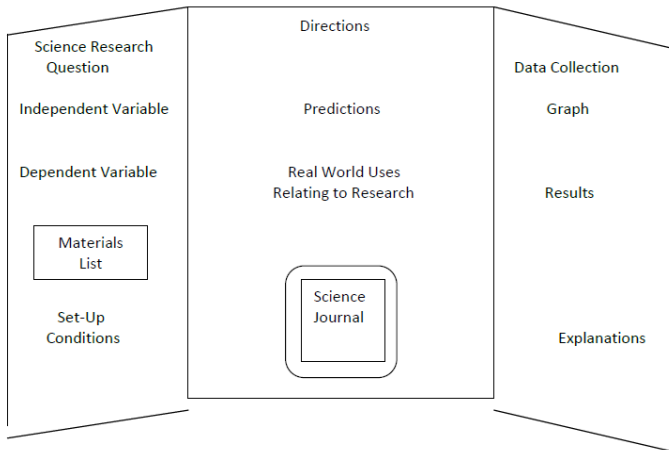_____
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Your presentation board can be setup in the following format.

Science Research Question	Directions	Data Collection
Independent Variable	Predictions	Graph
Dependent Variable	Real World Uses Relating to Research	Results
Materials List	Science Journal	
Set-Up Conditions		Explanations

SCIENCE INQUIRY PROJECT GUIDE

Name: _____

Wondering:
_____
_____
_____
_____

SCIENCE RESEARCH QUESTION:

_____
_____
_____
_____
_____

PREDICTIONS: (List 3 Possible Outcomes – increase, decrease, no effect). MARK YOUR OWN PREDICTION.

1.) _____

_____

_____

_____

2.) _____

_____

_____

_____

3.) _____

_____

_____

_____

EXPLANATION: (Explain whether or not your data supports, or fails to support your identified prediction. Explain why, including facts and details!)

_____
_____
_____
_____
_____
_____
_____
_____

REAL WORLD USES: (A description of ways, places, or situations where the information from your experiment might be useful – list at least three.)

_____
_____
_____
_____
_____
_____
_____
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_____
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_____
_____
_____
_____

GRAPH: (A mathematical picture of the data, using averages to plot data in the experiment. Remember to label the graph.)

INDEPENDENT VARIABLE: (Identify the one thing you will change in the experiment.)

_____

_____

_____

DEPENDENT VARIABLE: (Identify what you will be measuring (metric) and identify the tool(s) used.)

_____

_____

_____

CONTROL GROUP: (This group where the independent variable is under "normal conditions".)

_____
_____
_____
_____
_____
_____
_____
_____

SET-UP CONDITIONS: (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 DIRECTIONS: (List step by step procedures in the exact order it was done.)

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

DIRECTIONS (continued…..)

_____
_____
_____
_____
_____
_____
_____
_____
_____

DATA COLLECTION: (Data is usually represented in a chart form. Do 10 trials and use metric measurements.)

Items tested	1	2	3	4	5
Control group					

6	7	8	9	10	average

Results (Mathematical Statements from the data. What does the data show?)

_____
_____
_____
_____