

Your Guide to a Great Science Lab Write Up

Title of Exploration _____

Focus Question (Big Idea):

- What do you have to investigate or figure out in this lesson that is related to the big idea?
- What will be the main question that will guide your learning? (“What...”, “How...”, “Does...” are good beginnings.)

Hypothesis/Prediction:

- What do you think will happen (Using Prior Knowledge)? Create a plausible explanation for the phenomenon (e.g., Hypothesis: **If I do this to the independent variable... then this will happen to the dependent variable.** OR Prediction: **I think ... because...**).

Materials:

Procedure/Planning:

Data:

- Record the data in a way that will make sense to you later – use paragraphs, bullets, tables or charts, drawings, graphs, and so forth.
- Be sure to title and label diagrams and pictures.
- Measurements should be specific and accurate and units should be labeled.

Observation: Claims and Evidence

Claims	Evidence
1. Use sentences such as <i>I know... to be true</i>	1. <i>because I observed...</i>
2.	2.

1. State your claim based on your evidence (data collected from observations).
 - What do you claim to be true?
 - How can you prove what you are stating? Back it up.

Making Meaning Conference

- Make your thinking public in class discussion.
- Turn and Talk.

Conclusion/Reflection:

1. Restate the focus question in a topic sentence:
 - In this investigation...
 - In this inquiry...
 - I (we) learned that...
2. Use data from your claims and evidence chart to answer the focus question. Every claim must be supported by evidence.
3. Refer back to your hypothesis:
 - My hypothesis was correct/incorrect because...
 - I (we) liked/did not like... because...
 - My (our) prediction that... was... because...
 - This reminds me (us) of ... because...
 - I (we) discovered that ...
 - Now I (we) think that ... because...
4. What were your thoughts after the experiment (understandings, likes, related thinking, and connections)?

Questions:

What new questions do you have that can extend your learning?

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