Date:_____   Name:_____   Period: _____

Ch. 1 - Precise Communication   **Launch Lab # 1**

OBJECTIVE: "To understand the importance of precise communication while reinforcing

        student's knowledge of the scientific method."

QUESTION: *Why is precise communication important?*

RESEARCH:

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HYPOTHESIS:
                      (If . . . then . . . because . . . .)

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MATERIALS:
- **Small Object(s) to describe**
- **Science Notebook for recording descriptions & notes**
- **Pen or Pencil for recording descriptions & notes**

PROCEDURE:

1. Students will read & complete the safety section bellow & follow the procedures as outlined
2. Obtain an object from the teacher. DO NOT show it to your partner.
3. Write ONE sentence that accurately describes the object in detail without directly identifying or naming the object.
4. Give your partner the WRITTEN description & allow him or her a few minutes to identify the object.
5. Now use your partner's description to identify his or her object.
6. Record how long it took for you & your partner to correctly identify the objects.
7. Revise your initial sentence if necessary.
8. You and your partner will then trade written descriptions with another pair of students.

Don't forget to add Safety Procedures & Equipment

SAFETY:

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EXPERIMENT:

Write ONE sentence that accurately describes the object you received in detail without identifying or naming the object. Rely on Qualitative data to describe the object; color, texture, shape, appearance, etc while using the specific Quantitative estimate within your hypothesis.

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ANALYSIS:

1. *Identify*; were you and your partner able to identify each other's objects?
   Why or Why not?

Note which terms were descriptive and which terms were ambiguous

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2. *Error analysis*; write down the # of words in each sentence along with the # of
   guesses it took each partner to guess the object.
   The experiment was limited in time, so if your partner #1 was unable to correctly
   guess the object note that the results were inconclusive.

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3. *Compare*; did the second partner have an easier time determining the objects you and your first partner worked to describe better? Why or why not?

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4. Make sure to record the names of your partners and the objects in your analysis.

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5. *Identify data*; Quantitative data would include the number of words in your descriptive sentence along with the number of attempts it took your partner to guess the object described. Qualitative data would include the colors of the objects, textures, shapes, appearance, etc. Create two Qualitative Graphs to display your descriptive data.

(Make sure you include a key / label where necessary & it should be in color.)

CONCLUSION:

Answer the question proposed and answer the objective. State if your hypothesis was supported or not and include data from your analysis to back up your claim. Dedicate part of your conclusion to error analysis and discuss any potential sources for error(s) that may have contributed to inaccurate data. Don't forget to write your conclusion in past tense and paragraph form.

NOTE: Lab reports should be written in the 3rd (THIRD) Person. NO 1st (FIRST) Person pronouns. Do your best to eliminate any pronouns, the more "scientific" and impersonal the report, the better.

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