



Scientific Method / Science Fair Project



Name _____ Due Date: _____

Problem – The problem is the question that you are trying to answer.

- 2 Points** if the problem is written in the form of a testable question.
- 1 Point** if the problem is **not** written in the form of a question.
- 0 Points** if the problem is missing.

Hypothesis – The hypothesis is your educated guess at the answer to the problem.

- 2 Points** if the hypothesis is written as a guess or prediction to the answer of the problem.
- 1 Point** if the hypothesis is not stated as a prediction to the problem.
- 0 Points** if the hypothesis is missing.

Materials—All the materials necessary to perform the experiment.

- 2 Points** if all the materials are listed, including quantities/units (cm, cups, etc.)
- 1 Point** if some materials are not listed, and/or if quantities/units are not listed.
- 0 Points** if the materials are missing.

Procedure – The procedure is a step-by-step explanation of how to perform the experiment. To receive all 4 points the procedure must include all of the following:

- a. Procedure steps must be numbered.
- b. Procedure steps must be in the correct order.
- c. Procedure steps must include specific and complete instructions.
- d. Procedure steps must be written in complete sentences.

- 4 Points** if all four requirements have been met.
- 3 Points** if only three of the requirements have been completed.
- 2 Points** if only two of the requirements have been completed.
- 1 Point** if only one of the requirements have been completed.
- 0 Points** if the procedure is missing.



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Data — The data is the information collected from the experiment. It should be in the form of measurements or observations. Data is usually written in some kind of data table. When a data table is not applicable, photographs or written observations can function as the data.

- 2 Points** if the data is well organized, such as in a data table, chart, tally marks, photographs, or detailed written observations.
- 1 Point** if the data is not well organized.
- 0 Points** if the data is missing.

Results — The results are the part of the experiment where you analyze the data. This is shown as a graph. (A picture display may be used if a graph cannot.)

- 2 Points** if the data is correctly displayed and the correct graph type (bar, line, pie) has been used.
- 1 Point** if the data is not correctly displayed, and/or if the type of graph is not useful.
- 0 Points** if the results are missing.

Conclusion — The conclusion is the part of the experiment that answers the problem question. (It may or may not agree with your hypothesis.)

- 2 Points** if the conclusion answers the problem question.
- 1 Point** if the conclusion does not answer the problem question or is not related to the problem question.
- 0 Points** if the conclusion is missing.

Presentation (Appearance) of Poster Board

- The tri-fold board should be neatly constructed and organized following directions.
- Information should be typed and printed out before being carefully glued to the board.
- The board may have pictures, but avoid “decorations” that do not serve a scientific purpose.
- Graphs should be computer generated.

- 4 Points** if all the above criteria are met.
- 3 Points** if most of the above criteria are met.
- 2 Points** if some the above criteria are met.
- 1 Point** if none of the above criteria are met.

Total _____ /20

17-20 points = A

13-16 points = B

9-12 points = C

5-8 points = D

