Name_____ Date Assigned: _____

Part 1 - Science Fair Project Due Date: _____

List 10 Science Fair Project ideas for your teacher's approval. Explain what you are testing, and do not list any models.

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Name_____ Date Assigned: _____

Part 2 - Science Fair Project **Due Date: _____**

Title of Project: _____

Problem/Question:
Choose one of your 10 ideas for your Science Fair Project.
Write your idea in the form of a question.

_____

_____

_____

Research your project by looking up information about what you are testing in library books, ask an expert about it, or check the Internet (with parent permission), and write a summary in your own words. (List all reference materials on back.)

_____

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Hypothesis: What do you think the answer to your question will be? State as an "if…then…" statement.

_____

_____

_____

_____

_____

Name_____ Date Assigned: _____

Part 3 - Science Fair Project Due Date: _____

Materials: What do you need in order to perform your experiment?

Identify the Variables:

Independent Variable **(the one thing you are changing)** _____

Dependent Variable **(the thing that you are testing that will change)** _____

Controlled Variables **(things that stay the same)** _____

Procedure: What will you do to complete your project?

Your directions or step-by-step procedure must be very clear.

Name_____ Assigned Date: _____

Part 4 - Science Fair Project Due Date: _____

Procedure:

Rewrite teacher approved steps for your experiment. Be detailed, because someone else should be able to follow your directions and do the experiment exactly like you did without any help. Include safety precautions throughout your procedure as needed.

Experiment / Data:

Now follow your procedure and do the experiment. Collect data as you perform your experiment and record what happens in a chart or table. You also might want to keep a journal of observations as you do the experiment. Perform multiple trials to have reliable results. Take pictures of each step if you can. (Pictures cannot include yours or anyone else's face.)

Trials:

Do your experiment again. Follow your procedure exactly as before. Do not change anything. Show trial results in chart or table, and in any of your graphs. Include your explanation of these results in your conclusion.

What happened this time?

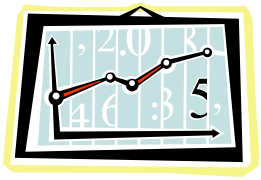
Were my results the same as the first time?

Name_____ Assigned Date: _____

Part 5 - Science Fair Project Due Date: _____

Results:

What does your data show? Write an explanation of your results, and show the data that you have collected as a bar graph, line graph, pictograph, and/or chart.



Use this space below to create a chart and/or graph of your results.

Name_____ Assigned Date: _____

Part 6 - Science Fair Project Due Date: _____

Conclusion:

What did you learn from conducting your experiment? Answer your problem/question by explaining what happened. Tell whether your hypothesis was correct or incorrect. Use your research to support your explanation of why you obtained the results you did. You can also explain any of the following questions:

Did the trials support your original data?
What could you have done differently?
Were there any errors?
Did this experiment raise any other questions that you would like to answer?"