Notes Outline

Topic: Scientific Method	Name _____ Date _____ Period ____

Learning Goal: Explain how to design and conduct an experiment including posing a question and developing a hypothesis to make a scientific explanation.

Vocabulary:
scientific inquiry

hypothesis

independent variable

dependent variable

controlled experiment

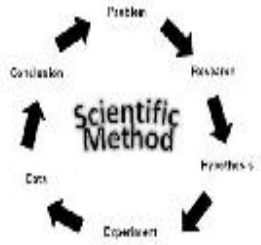
bias

repeated trial

replication

scientific explanation

Questions:
1. Explain the steps of the Scientific Method.



2. Match each activity with the correct step in the Scientific Method.
   A. State the problem
   B. Gather information
   C. Form a hypothesis
   D. Perform an experiment
   E. Analyze data
   F. Draw a conclusion

____You research your topic on the internet.
____Feed 3 plants Gatorade and 3 plants water for 6 weeks.
____Plants fed with Gatorade grew on average 2 inches taller.
____I think water will help a plant grow taller
____Will Gatorade help a plant grow taller than water?
____Use the data on plant height you collected to create a graph.

Summary: In a sentence (or 2) write what's important to understand about designing an experiment. **OR** Create a problem and describe how the Scientific Method can be used to help solve it. *(answer in complete sentences 20-30 words - should include vocabulary, main ideas and should show you understand the learning goal.)*

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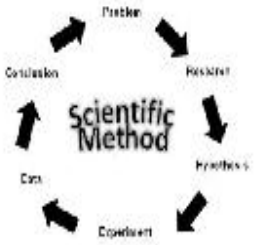

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