Name _____

Bobbie Jo Williams

Learning the Scientific Method

Directions- Carefully read the problem below. Using the scientific method write up a lab report. Make sure you gather information and based on the information gathered, form a hypothesis or an educated guess, on what you think the solution could be. After gathering data and forming your hypothesis, come up with an experiment that the whole class can do to test your hypothesis. But before the class can do it you must perform the experiment and record and analyze all your data. After which you will form a conclusion based on your experiment. Have fun and be creative!

Problem- Emma got a new basketball for her birthday. She played with it all day long. When her mom called her in for dinner she left her ball outside. When she woke up in the morning and went back out to play with the ball it was flat. Why was Emma's basketball flat in the morning?

1. State the Problem:

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2. Gather Information on the problem:

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3. Form a hypothesis based on your data.

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4. Create an Experiment to test your hypothesis. Remember to make sure you use the same amount of water at the same temperature each time. Include a list of the materials you will need. (Use a separate piece of paper if necessary)

Step 1:

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Step 2:

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Step 3:

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4. Record and analyze all of your data. Use the space below to make charts, or graphs to help you visualize.

5. Based on your data above form a conclusion and state whether or not your hypothesis is correct.

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