

Summer Science

This summer take some time to explore the world of science! Choose one of the explorations below to investigate. Complete the science experiment and the questions page. Return to your science teacher by September 12th, 2008.

Choose one of the possible explorations:

1. Will a large ball dropped from a certain height bounce higher than a small ball?
 2. Can one brand of wet paper towel hold more pennies than another?
 3. When you wad up a piece of paper many times and then flatten it, is size affected?
 4. When you drip a small amount of colored liquid into a glass of water, does the temperature of the water make a difference in how the color spreads through it?
 5. When you swing a weight on a string, does the length of the string affect the swings?
 6. When you swing a weight on a string, does the amount of weight affect the swings?
 7. Which dissolves faster, sugar or salt?
 8. Which dissolves sugar faster, hot water or cold?
 9. Which melts ice faster, salt or sugar? **
 10. Which kind of dishwashing detergent cleans a dirty plate best with no rubbing?
- *Control is room temperature water.
**Control is ice with no additive

Science Lab Report Template
(You will need to do this on your own paper!)

Name:

- 1. Problem:**
- 2. Introduction:** (What do you expect to learn? What is the purpose of this lab?)
- 3. Hypothesis:** (Predict the outcome(s) of the experiment, must be in an "if...then format.)
- 4. Materials:** (What equipment and materials did you need for this lab assignment? Describe how any equipment was connected. Also mention any special hardware or connections. List the name and amount of each item used.)
- 5. Procedures:** (What steps did you take to accomplish this lab assignment?)
- 6. Data Recording:** (Record the data that is required at each step of the lab: tables, charts, graphs, sketches, etc.)
- 7. Analysis:** (Explain you data in words.)
- 8. Discussion:** (Discuss what happened in the lab. Give details on anything that went wrong. Answer any questions from the lab protocol sheet.)
- 9. Conclusion:** (What did you learn? What conclusions can you draw form the results of this lab assignment? Compare the results of the experiment with you hypothesis.)