**Water Properties Lab**

Directions: Answer in complete sentences and place all answers in your notebook.

I. **THE AMAZING FLOATING PAPERCLIP** –

A. Fill a petri dish with water. Drop a paperclip in the water. What happens? Why do you think this happens?

B. Now try to float a paperclip on the surface of the water. It helps if you bend one end of the clip up to give your fingers something to hold onto. Lower the paperclip flat against the surface, slowly and without touching the surface of the water with your fingertips. Can you get it to float?

C. Once you have the paperclip floating on the surface of the water, put a drop of dish soap in the water. What happens?

II. **IT'S A FLOOD!** – Start with a **full** small beaker of water. Predict how many pennies you can add to the water without the glass overflowing - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Gently add pennies one by one. Watch the surface of the water as you add the pennies. What is happening to it?

How many pennies could you add before the water spilled? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

III. **COME TOGETHER, RIGHT NOW** – On a piece of wax paper, put three drops of water near, but not touching, each other. Use a toothpick to gently push the water drops toward each other. What happens?

Gently poke this drop with a toothpick. What happens?

Now, put a little bit of dish detergent on the tip of the toothpick and poke the drop. What happens?

IV. **ROW, ROW, ROW YOUR BOAT** – Draw an equilateral triangle (3 cm. sides) on an index card and cut it out. This will be your boat. Place the boat on top of the water in the petri dish and let it float. Put a small drop of dish detergent on your finger. Dip your finger in the water behind your boat. What happens to the boat?

V. **IT'S SNOWING ALREADY?!** – Sprinkle talcum powder lightly on the surface of the water in the petri dish. Take a small piece of wet soap and touch it to the water near the edge of the dish. What happens to the powder?

**CONCLUSIONS**: O.K. So, now you have seen how water can behave in strange and mysterious ways.

Draw a model of the wonders of water properties. Include all the phenomenon you observed and an explanation.