Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period \_\_\_

**Lab: Addition of Salts**

**Materials:** Plastic container, masking tape or rubber band, marker, dark construction paper, coffee filter, dirt, salt, 600ml beaker, 100ml graduated cylinder

**Procedure:**

1. Label plastic container with period number and a group member’s name.
2. Place a piece of black construction paper in plastic container.
3. Place a round coffee filter in a large beaker and either rubber band or tape it around the top to the beaker, so that it won’t fall into beaker.
4. Pour 2 tablespoons of dirt and 2 tablespoons of salt into the coffee filter
5. Pour 90ml of water into the mixture and allow the water to drain through the filter paper into the bottom of the beaker.
6. After most of the water has drained through, carefully remove and discard the filter paper with the soil. (Try not to allow soil to spill into water in bottom of the beaker.)
7. Pour the water from the bottom of the beaker onto the black construction paper in the plastic container.
8. Let the construction paper dry overnight.
   1. In the Prediction section below, predict what the construction paper will look like in 3 days.
9. Observe and record your results below.

**Prediction:** Predict what the construction paper will look like in 3 days.  **Explain** your prediction.

**Data:**

1. Describe the appearance of the black construction paper after it has dried. Does it look like it did before the lab? How does it differ?

**Analysis and Conclusions**

1. What do you think is on the construction paper?
2. Explain where the substance in #2 was at the beginning of the lab and how it got onto the construction paper.
3. The lab modeled how salts get into the ocean. What did each of the following represent?
   1. Dirt
   2. Salt (Remember the 2 main sources of salts added to the ocean. Which source does the salt represent? Be specific.)
   3. Water
   4. Black paper
4. According to this lab, does it appear that rivers could carry salt into the ocean? Explain.