Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_

**Sea Ice vs. Glacier**

**Materials:**

* 2 250 mL beakers
* Ice
* Hot plate

**Procedures:**

1. In Beaker A pour 150 mL of water. Add a few ice cubes.
2. In Beaker B fill with ice to 150 mL and then add water to the 150 mL mark.
3. Place both beakers on a hot plate and allow the ice to completely melt. Compare the quantity of water in both beakers. Write your results.

**Data:**

How did Beaker A compare with Beaker B?

In the last century, average temperatures in the Arctic have climbed almost twice as fast as the temperature around the rest of Earth. In some places, the Arctic is as much as 40C (70F) warmer than it was 50 years ago. That warming is having big effects on the Arctic environment. The ice is melting. This is changing the habitats of Arctic animals and the way of life of Arctic people.

Sea Ice: Ice floating on the sea

Glacier: A tongue of ice that moves slowly downhill

**Analysis:**

1. What did Beaker A represent in a “real life” situation?

* If this ice were to melt in the oceans, what type of impact might it have on the planet?

1. What did Beaker B represent in a “real life” situation?

* If this ice were to melt in the oceans, what type of impact might it have on the planet?

1. How do the two types of ice melt compare for the planet?