Name:_____ Date: _____ Bell: _____

Activity: Rising Sea Level Lab

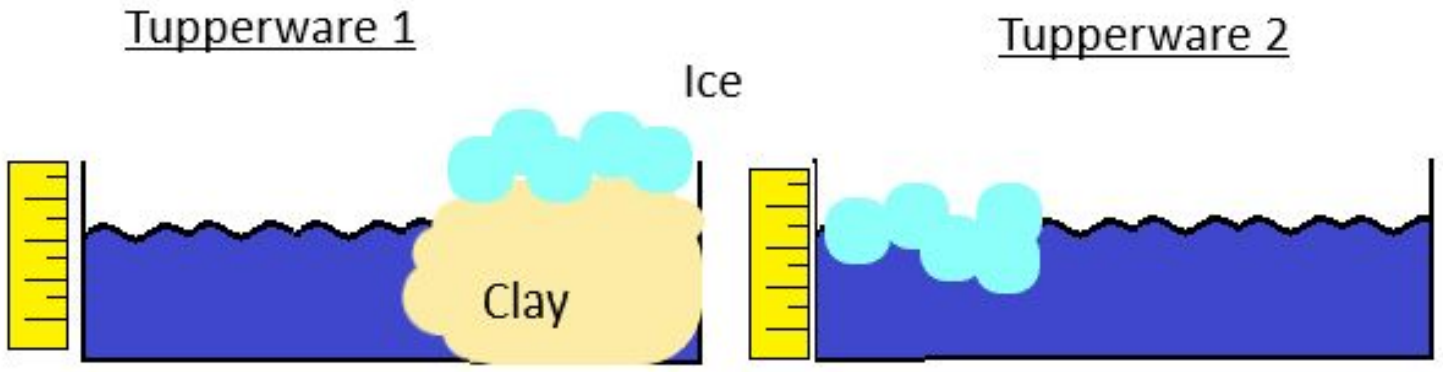
Question: How are sea levels affected by ice and sea ice?

Materials:

- 2 Tupperwares or clear food storage boxes
- Clay
- Graduated cylinder
- Ruler
- Water
- 20 Ice cubes

Directions:

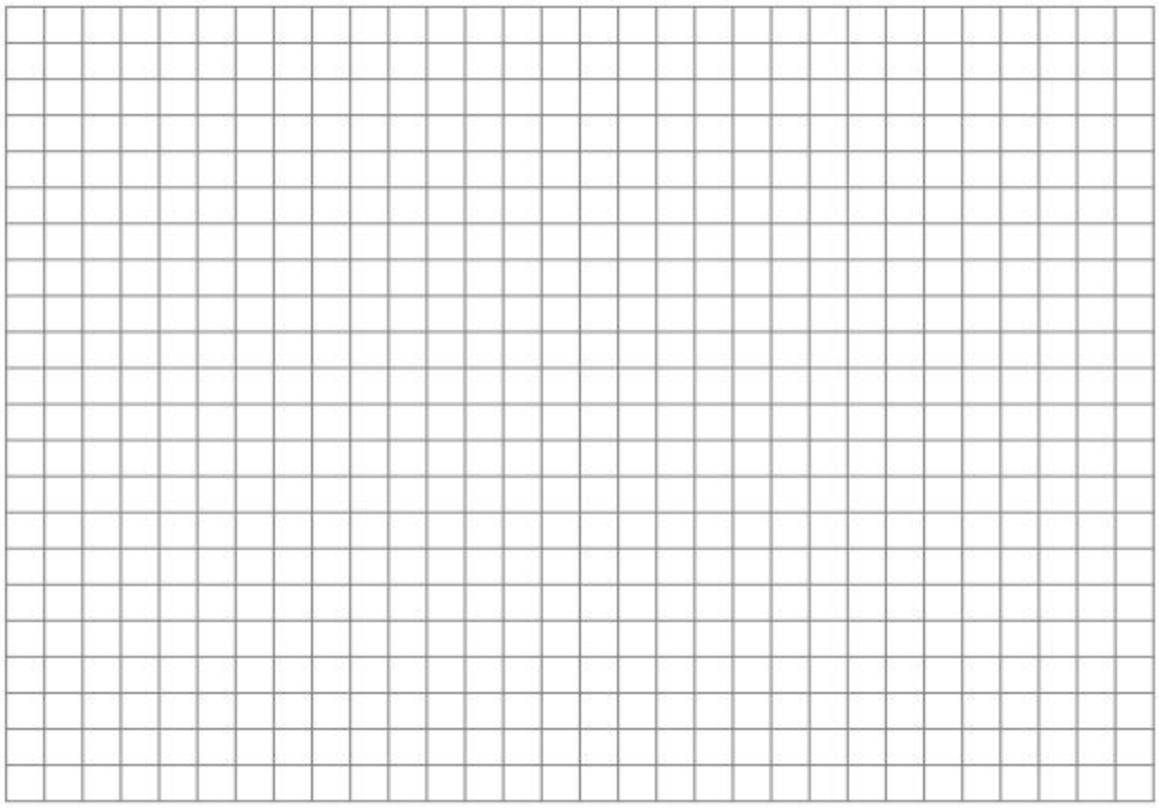
1. Mold and place the clay on part of the bottom of one of the clear boxes to represent land (see experimental image below). Do not place clay in the second clear box.
2. In the first box, place 10 ice cubes on the clay. This will represent land ice. In the second box, place 10 ice cubes on the bottom. This will represent ice that is already in the ocean.
3. Using a graduated cylinder, pour water into the second box so that the ice is floating and not resting on the bottom. Pour the same amount of water is added to each container. The water will represent the sea.
4. Using the ruler, measure the change in sea level ruler every 5 minutes for 30 minutes. Record your data in the table below. Create a bar graph to analyze your data.



Data:

Time (minutes)	Water Height (mm)	
	Ice on Land	**Ice on Water**
0 (initial height)		
5		
10		
15		
20		
25		
30		

Analysis:



Conclusions:

Which container saw a greater increase in water height, the container with “land ice” or the container with sea ice”? Back up your claim with evidence and explain your reasoning.

Claim: _____

_____

_____

Evdience: _____

_____

_____

_____

Reasoning:_____

_____

_____

_____

_____

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