

Glaciers melt as temperatures rise!

Supplies: Water, 2 small Tupperware, 2 large bowls, food dye (optional), play dough

- 1.) Freeze two small containers of water for 6 hours to overnight
- 2.) The next day remove the ice cubes you made from their containers
- 3.) Take one of your emptied small containers and fill it almost completely with something to weigh it down (flour, sugar, rice, sand, anything denser than water)
- 4.) Get out two large containers (I'm using cake pans) and place your filled small container in the middle of one of your large containers.
- 5.) Fill your two large containers with about 1 inch of water
- 6.) Measure the exact depth of the water in each large bowl or bucket
- 7.) Wait 30 minutes (simulates global climate change over 30 years) and measure your water in both buckets.
- 8.) Repeat after an hour (global climate change after 60 years)
- 9.) Measure your water again. You will notice that our "glaciers" have melted and the water level has gone up (sea level rise)

Original depth of water: _____

Depth after 30 min: _____

Depth after 1 hour: _____

Did the water level change? If so, how much did it change? Which container changed?

If this was happening on Earth, what negative effects would this have on our ecosystems? What effects would it have on our communities?