

# M05 Labs

Wednesday, June 01, 2011  
3:26 PM

VoiceThread <http://voicethread.com/share/2381200/>

## Slides



## Notes

### Experiment 5.1: Evaporation, Condensation, and Precipitation

Fill a saucepan about 3/4ths full and add 3 tblsp of salt. Taste a bit of it to confirm the saltiness.

Bring it to a boil. While it is heating, fill a ziplock bag with ice cubes and seal it.

Once the water is boiling, use an oven mitt to place the lid an angle in the steam. Rest the bag of ice on the lid to speed up the process. Collect the water in a cup.

After enough condensate collects to be able to taste the water (once it is cool enough), check to see if the water tastes fresh or salty.



### Experiment 5.2: Ice and Salt

Fill a bowl with 2 cups of water. Add 2 tsp of salt and stir to dissolve it. Taste it to confirm the salty flavor.

Place the bowl in the freezer. You want to catch it before it is frozen solid, but you do want a about half the amount to be ice.

While the salt water freezes, place a small pile of salt on top of the ice cube and observe what happens.

Remove the bowl you placed in the freezer when it is half iced and rinse of the ice using a strainer. You don't want it all to melt, but you do want to rinse the salt water that clings to the surface to be removed. Let the ice melt and taste the water. Is it salt or fresh water?

Experiment 5.3: Cloud Formation

I cleaned the plastic bottle and removed any labels or wrapping so that I was able to see through the entire bottle. Then I filled the bottle about one-eighth of the way with warm water. I put the cap on the bottle tightly. Next, I squeezed the bottle with both hands, holding it like that for a moment and then releasing the pressure, still holding on to the bottle. [Did you see anything happen? (Probably not)]

I opened the bottle. [Note if you had the reshape the bottle back to its original shape.] Then I lit a match and allowed it to burn for a moment. I dropped the match into the bottle. After it hit the water and extinguished, I put the cap back on the bottle tightly again squeezed the bottle with both hands, holding it like that for a moment and then releasing the pressure, still holding on to the bottle. [Note and record what happened, making a “before” and “after” drawing.]

I repeated the bottle squeezing step, noting and recording my observations each time.

