

Fishing for Ice!

Ice fishing is an age old method to catch some grub in polar regions, and while this experiment won't be quite as fishy, you will learn about ice, freezing points, and a little bit about chemistry!

Materials

- Cup or Bowl
- Ice
- Water
- String (You can try different kinds!)
- Salt

Experiment

1. Fill bowl or cup with ice and water
2. Try to use string to "fish" for ice
 - a. Do any ice cubes come up?
3. Now lay string over top a floating ice cube
4. Sprinkle a small amount of salt where the string makes contact with the ice cube
5. Let sit for about 30 seconds
6. Now try and fish for ice!
 - a. Did you catch anything?
7. If it does not work, troubleshoot! Change your string, change the amount of salt, or change how long you let it all sit. These are all *variables* that can change the outcome of an experiment

The Science Behind It All:

- Water freezes at 32 degrees Fahrenheit
- When you add other components, like salt, this lowers the freezing point so that the ice melts (this is a chemical reaction that causes a change of state in matter)
- The string sits in a pool of water, but because of the surrounding ice, the temperature is low enough that it refreezes attaching itself to the string!

