

Experiment #3

Read the instructions that follow before you do anything. Then make a hypothesis about what you think will happen – which ice cube will melt faster?

Instructions for experiment #3: Make four coloured ice cubes by adding several drops of food colouring to the water before you freeze it. (You will use two coloured cubes in Experiment #3 and two coloured cubes in Experiment #4.) Make up some more salt water, add equal amounts of tap water and salt water to your jars, get your coloured ice cubes ready, start timing and drop in the ice cubes. **DO NOT STIR THE ICE CUBES.** Write down what you see happen.

Experiment #4

Read the instructions that follow before you do anything. Then make a hypothesis about what you think will happen — which ice cube will melt faster?

Instructions for experiment #4: Make a SUGAR solution by dissolving 2 level *tablespoons* of sugar in one cup of *room temperature* water (or dissolve 30 grams of sugar in 200 mL of water). Stir the mixture until all the sugar dissolves. Add equal amounts of tap water and sugar water to the 2 glass jars, get your coloured ice cubes ready, start timing and drop in the ice cubes. **DO NOT STIR THE ICE CUBES.** Write down what you see happen.