**Purpose:**

To give students a visualization of convection currents and a better understanding of the subject.

**Materials Needed:**

Clear water basin or baking dish (~8 quarts)

Small glass bottle

Red and blue food dye

Water (Hot)

**Preparation:**

1. Before class begins the teacher will need to mix some water with a few drops of blue food dye. The teacher will need to take this mixture and use it to fill an ice cube tray. The tray should be placed in the freezer and given enough time to freeze into ice cubes before the experiment can begin.
2. The groups will each get an 8 quart basin and will need to fill it with tap water.
3. Each group will also receive a small glass bottle which the students will need to fill with hot water. They will also need to add a few drops of red food dye.
4. The students need to swirl the bottle to make sure it is well mixed.
5. With one finger covering the mouth of the bottle the students will need to slowly lay the glass bottle down at the bottom right side of the basin and then remove their finger.
6. At the same time, the students will need to place a blue stained ice cube in the bottom left side of the basin.
7. The students will need to observe and record what happened and fill out their lab report.

From <http://www.youtube.com/watch?v=OojnMRWoucE&feature=related>