

## **Light Sticks and Temperature**

### Instructions

#### Materials:

- 3 glow in the dark light sticks
- 3 containers
- Water, room temperature
- Water, hot but not boiling
- Water, cooled with ice

#### Set Up:

1. Prepare three containers, can be beakers or jars or trays..
2. Add cold water to 1 container, room temperature water to the second container, and hot water to the third container, in that order.

#### Demo Procedure:

1. Add one light stick into each tray.
2. Wait a few minutes for the light sticks to come to the same temperature as the water.
3. Turn off the room light.
4. Activate the light sticks by snapping the sticks and breaking the small glass vial inside the plastic tubes. Shake the sticks to allow the chemicals to react and distribute more evenly.
5. Point out the difference in brightness between the three light sticks and how this intensity difference corresponds to the temperature differences of the water.