Shade, Sun, and Heat Lamp with Objects Directions:

Materials:

* Nine cups of ice
* Small bag of dirt
* Small animal toys
* Thermometer
* Heat lamp
* Sunny spot in the classroom
* Shaded spot in the classroom
* Timer

Directions:

* Before freezing, add a table spoon of dirt to the 9 cups of waters.
* Add one small animal toy to each cup
* Place 9 cups of water in the freezer for three hours
* Once frozen, place 3 cups in a shaded spot in the classroom, 3 cups in the sun, and 3 cups under a heat lamp
* Add thermometers to each cup and place timers by each area
* Group students into three groups
* Have students first start at the shaded area to start the timer and to estimate how long the ice will take to melt
* Have students move to the sun to start the timer and estimate the time
* Finally, have students move to the heat lamp and estimate their time
* Have students monitor all of their ice cups and read the thermometers