

## Convection Activity Teacher Set up Instructions

### **Materials Needed:**

#### ***PER GROUP:***

- Beaker
- Hot plate
- Three Styrofoam cups
- Food coloring
- Water; hot and cold
- Plastic pan (pie pan without ridges)
- 2 Droppers

Have students break off into groups of 3 or 4. Have students obtain all materials needed above. Remind students after lab safety, especially with the hot plate. Make sure students know that the beaker needs to have water in it if the beaker is to remain on the hot plate. Have the students arrange the Styrofoam cups as pictured in the first image; the cups should make a small triangle. Have the students follow the procedures for the activity. You may want to demonstrate sliding the cup of hot water underneath the plastic pan so as not to disturb the water in the pan. Make sure the person with the hot water cup is very careful with handling it. You do not want anyone to get burnt!!