Experimenting with Solar Heaters: Part 1

Directions for Solar Heater

**Materials:**
- 2 vials
- 2 thermometers
- 2 Styrofoam plates
- 1 30cm x 30cm piece of aluminum foil
- 1 soup bowl

**Directions:**

1. Place aluminum foil in bowl and mold to bowl's shape

2. Smooth out the aluminum foil to minimize creases

3. Add 30ml of water to each vial

4. Record the initial temperature of the water in each vial

5. Place caps on vials

6. Place one vial on an upside down plate in the shade, one on a Styrofoam plate in the sun, and one in the solar heater on a Styrofoam plate in the sun

7. Let sit for 15 minutes

8. Record final temperature of the water in the three vials