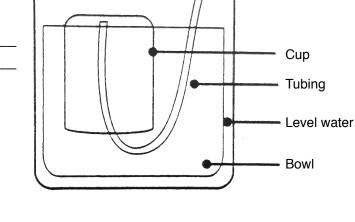
# Activity: Tube In A Cup

**Problem:** Does air take up space? Does air exert pressure?

#### Hypothesis/Prediction:

#### Materials:

- plastic or rubber tubing
- clear plastic cup
- clear glass bowl (filled with water)



### Variables:

Controlled: \_\_\_\_\_\_ Independent/Manipulated: \_\_\_\_\_\_ Dependent: \_\_\_\_\_\_

### **Procedure:**

- 1. Tape the end of plastic tubing to the inside of a cup, close to the bottom of the cup.
- 2. Seal the other end of the tube and hold it above the water level.
- 3. Invert the cup and push it straight down in the bowl of water. Observe that there is still air in the cup.
- 4. Blow into the tube. Note observation. Is there still air in the cup?
- 5. Unseal the tube. Note observation. Is the water level rising in the cup?
- 6. Blow into the tube. Note observation. Is the air displacing the water?

## **Observations:**

## Inference/Conclusions: