

Name: \_\_\_\_\_ Period: \_\_\_\_\_

**Title:** Water Cycle in a Test Tube

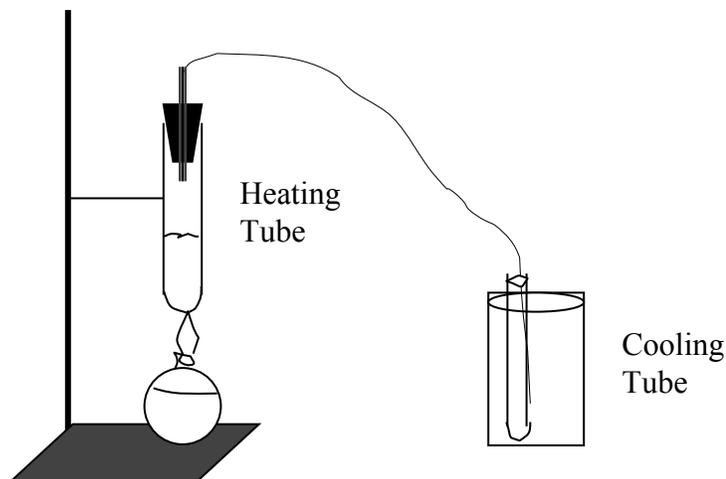
**Purpose:** To model the flow of water through an ecosystem and determine if water changes as it flows through the system.

**Prediction:** How will the dirty water change?

**Materials:** ring stand, clamp, 2 large tt, stoppers, glass and vinyl tubing, bucket, alcohol burner, goggles, large beaker, dirty water

**Procedure:**

- 1 Set up apparatus like the drawing below.
2. Add 30 ml of “dirty” water to the heating tube.
3. Light the burner and heat the test tube.
4. Write down observations as you go.
5. Heat until half the liquid is gone.
6. Look at the cooling tube. Describe the results.



## Data

minute	observations
Start	
2	
4	
6	
8	
10	
12	
14	

## Analysis:

1. What does the water do as it is heated?
2. Where does it go after the heated test tube?
3. What does it do when it hits the cool tube?
4. What part of the water cycle does the heated tube represent?
5. What part is the vinyl tube?
6. What does the cool tube represent?
7. How clean is the water in the cool tube? At what stage in the water cycle is water purified?
8. What is water vapor?
9. What is the chemical formula for water vapor?
10. When does water vapor turn into water?

**Conclusion:** In complete sentences please explain 2 major ideas you learned in this lab.