

Initial Readings
EcoJar
Honors Biology
Lindemulder

Name: _____

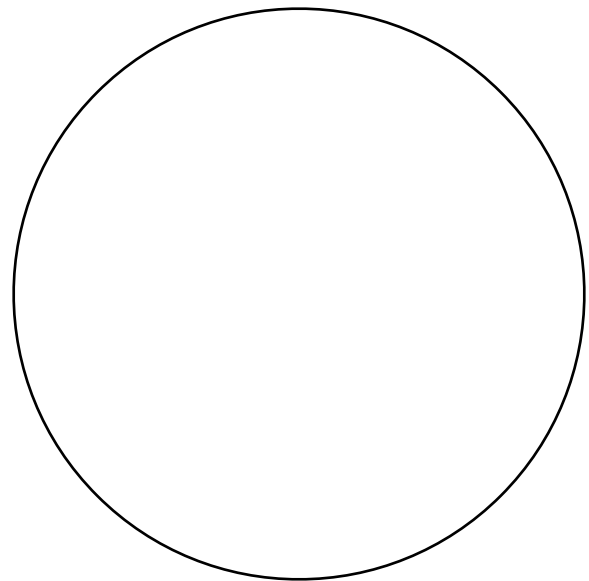
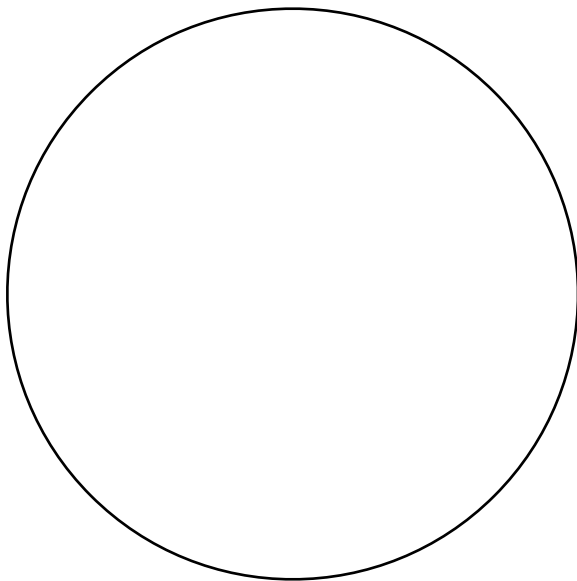
Date: _____ Hour: _____

Tests you must run today:

Test	Reading (with units)
Air Temperature	
Water Temperature	
Water pH	
Clarity (Turbidity)	
Nitrate	
Nitrite	
Total Dissolved Solids (Conductivity)	
Dissolved Oxygen	

Microscope usage:

Directions: Following the correct procedures for microscope usage, look at at least two different water samples and draw what you see in the space below.



Questions to Answer:

1. What was the difference between the air and water temperature? What accounts for this difference?
2. What water temperature are you looking for? What are ways you can influence that?
3. What is pH? What pH level are you looking for? How can you influence this?
4. How is water clarity measured?
5. What factors would be impacted by water clarity? What are ways that you can influence this?
6. Would you want 100% clear water?
7. Reexamine the nitrogen cycle. What is nitrate used for? What is nitrite used for?
8. What levels of nitrate and nitrite do you want in your jar?
9. What does TDS measure? What does it tell you? What levels do you want to see in your jar?
10. What levels of dissolved oxygen did you see in your jar? Where do you want that level to read before you would consider putting a fish in? How will you achieve that?
11. What organisms did you see under the microscope? What do you think you would need to see in order for your system to be healthy?