**Worksheet**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class:\_\_\_\_\_\_\_\_\_\_\_\_

Dissolved Oxygen (DO)

1. What is dissolved oxygen?
2. How does it get into the water?
3. Why is it important?
4. What other chemical parameter directly influences the amount of oxygen the water can hold?

pH

1. What is pH?
2. What is pH influenced by? What can happen in the environment to change the pH of water?
3. What can pH affect?

Biochemical Oxygen Demand 5-Day (BOD5)

1. What is BOD5? What does it measure?
2. What types of things when “broken down” contribute to high BOD5 levels?
3. What problems can result from high BOD5 levels?

Water Temperature

1. What can cause water temperature to change (in particular, what can cause it to increase)?
2. What problems result from increases in water temperatures?

Phosphates

1. What are phosphates?
2. How do they get into the water? What are the sources?
3. What can result from excess phosphates in water?

Nitrates

1. What are nitrates?
2. How do they get into the water? What are the sources?
3. What can result from excess nitrates in water?

Turbidity

1. What is turbidity?
2. What causes water to be turbid? What are the sources?
3. What problems can result from excessive turbidity?

**Water quality assessment recording sheet**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date |  | Time |  | Air Temperature |  |
|  |  |  |  |  |  |
|  | Units | Sample 1 | Sample 2 | Sample 3 | Average |
| Dissolved Oxygen | mg/L |  |  |  |  |
| BOD5 | mg/L |  |  |  |  |
| pH | Unit |  |  |  |  |
| Temperature | Degrees Celcius |  |  |  |  |
| Nitrate | mg/L |  |  |  |  |
| Phosphate | mg/L |  |  |  |  |
| Turbidity | NTU |  |  |  |  |