**Cranna Lake Pond Study**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_**

**Outcome #2 Identify ways to measure the quantity of environmental chemicals.**

* Can I describe and illustrate the use of biological monitoring as one method for determining environmental quality?
* Can I identify chemical factors in an environment that might affect the health and number of living things in that environment?

**Question:** Is Cranna Lake a healthy pond?

**Prediction:**

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**Observations:**

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| **Aquatic Invertebrate** | **Number Found** | **Aquatic Invertebrate** | **Number Found** |
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| **Good O2 Quality Indictors**  ***8-10 ppm of oxygen*** | **Moderate O2 Quality Indictors**  ***4-8 ppm of oxygen*** | **Poor O2 Quality Indictors**  ***0-4 ppm of oxygen*** |
| Stonefly nymph  Maytfly nymph  Caddisfly larvae  Water penny beetle  Riffle beetle  Gilled snail | Dragonfly nymph  Damselfly nymph  Cranefly larvae  Clams and mussels  Sowbug  Crayfish | Midge larvae  Blackfly larvae  Leech  Aquatic worm |

|  |  |
| --- | --- |
| **Turbidity** | Very Cloudy Moderate Clear |
| **pH Level** |  |
| **Phosphates Present** | Yes No |
| **Estimate of ppm of oxygen** | 8-10 ppm 4-8 ppm 0-4 ppm |

**Conclusion:**

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