**Itty Bitty Pond City: A Water Pollution Investigation**

**Purpose:** Why care about pond life? Explain!

**Materials:** List all, including the pollutant you choose to use.

**Procedure:**

1. Wet mount: Take a clean slide and add one drop of pond water culture using the provided dropper. Cover the slide with a slip cover.
2. Observe and draw three organisms that you locate in the pond water.
3. Chemical application: Carefully lift your slip cover and add one drop of your selected chemical pollutant (get from up front).
4. Observe and draw three organisms after the pond water has been contaminated.

**Data: x3 for each procedure!**

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| **Sketch:** | **Description:** |
| Three large pictures—detailed as possible, no blobs. | What is the organism doing? What does it look like? How is it interacting with it’s environment? |

**Conclusions:** Answer the following in your lab notebooks:

1. What is your community like? Diverse? Dynamic? Explain.
2. Why did your organisms react the way they did to the chemical pollutant?
3. Why are these microorganisms important? Why should we care if we kill them?
4. How might we pollute pond microbiota and how can we prevent this?
5. Explain the process of eutrophication—what would happen to our little critters in a eutrophied environment?