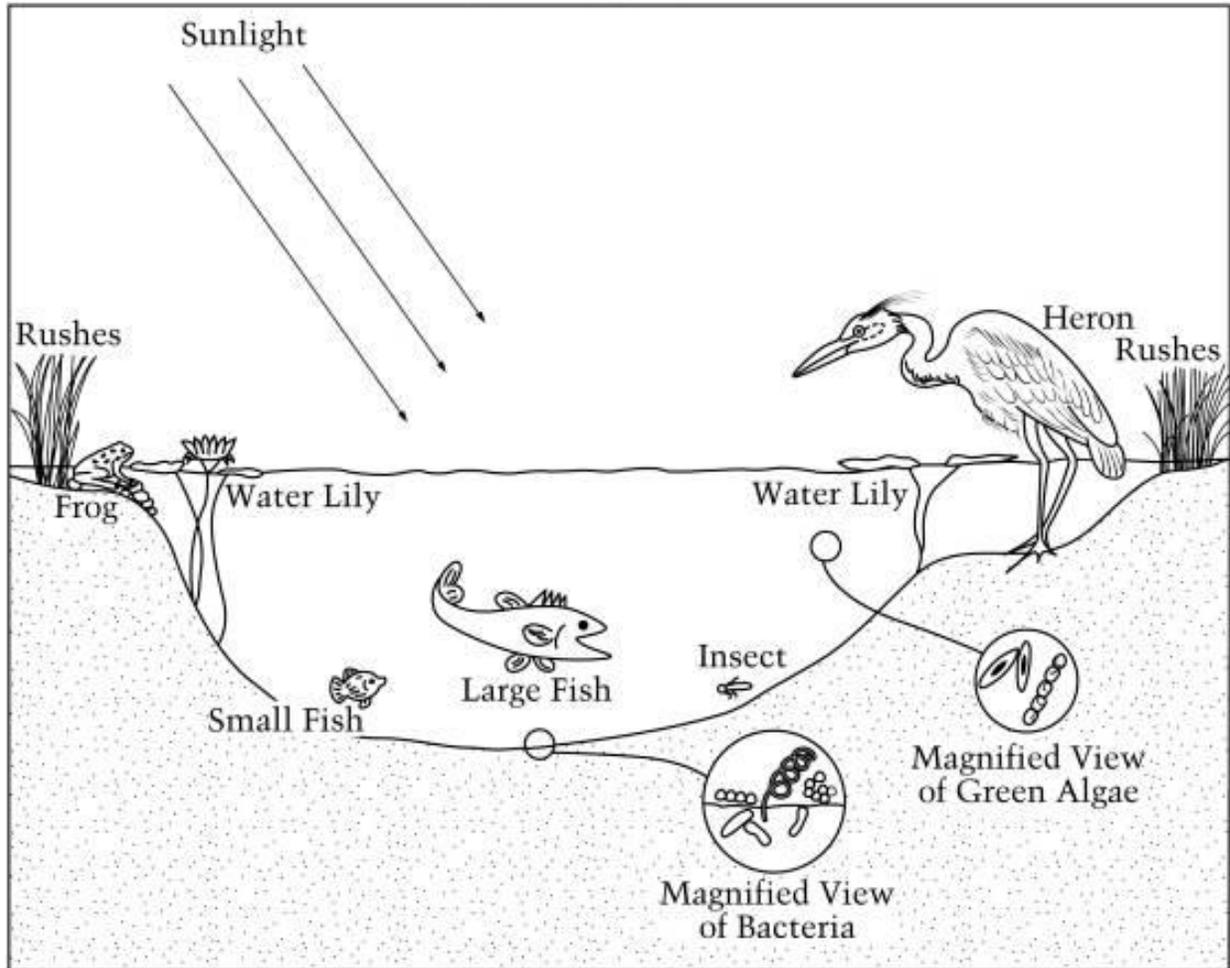


**HOMEWORK #13**

This assignment is due at the start of the class band on \_\_\_\_\_.

- A. Watch the following online video: “BrainPOP: Ecosystems” (see your teachers for password)  
<https://www.brainpop.com/science/ecologyandbehavior/ecosystems>
- B. Read Miller & Levine (textbook) pp. 56–59 and answer the following questions in **complete sentences** on a **separate sheet of paper**. You may type or neatly handwrite your answers.

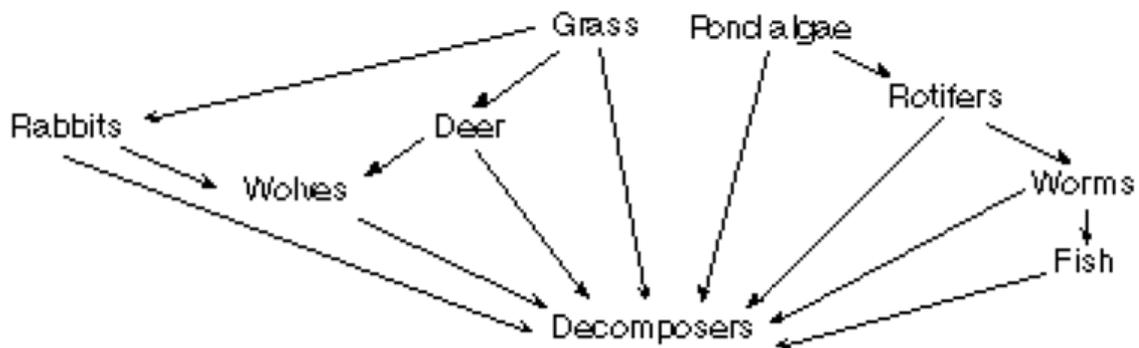


1. Identify *two* abiotic factors in the diagram and *two* biotic factors in the diagram.
2. Identify *one* population in the diagram.
3. Identify *all* the members of the community in the diagram.
4. Identify *all* the members of the ecosystem in the diagram.
5. Identify *three* factors that limit the number of frogs that can live in this ecosystem. Explain how *each* of the factors you identified affects the population of frogs.

**HOMEWORK #14**

This assignment is due at the start of the class band on \_\_\_\_\_.

- A. Watch the following online video: “BrainPOP: Food Chains” (see your teachers for password)  
<https://www.brainpop.com/science/ecologyandbehavior/foodchains>
- B. Watch the following online video: “BrainPOP: Energy Pyramid” (see your teachers for password)  
<https://www.brainpop.com/science/ecologyandbehavior/energypyramid>
- C. Read Miller & Levine (textbook) pp. 60–67 and answer the following questions in **complete sentences** on a **separate sheet of paper**. You may type or neatly handwrite your answers.



1. Identify *one* carnivore in the food web.
2. Describe the complete path of energy from the Sun to that carnivore.
3. Draw an energy pyramid representing at least *three* of the organisms in the food web.
4. Explain why decomposers are necessary in the food web.
5. Explain how the grass population would change (increase, decrease, or remain the same) if the population of wolves in the ecosystem decreased. Support your answer with an explanation.
6. A farmer sprayed pesticides on a field next to this pond.
  - (a) Explain the purpose of a pesticide. [*Hint: look up this term if you do not know what it means.*]
  - (b) Explain why several years later, the fish population would contain high levels of dangerous pesticides.