**4th Quarter Ecology Study Guide – Due Thursday June 12th in Class**

**Part I: Land Use and Streams**

1. What is the difference between a tributary and an estuary?
2. Define watershed:

#s 3 – 6: Fill in the blank using the word bank below:

|  |
| --- |
| deposition erosion high low non-point point |

1. Runoff containing fertilizer is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ source.
2. A leaking barrel of chemicals is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ source.
3. Streams always flow from \_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ elevations.
4. Faster parts of a stream have more \_\_\_\_\_\_\_\_\_\_\_\_\_\_, while slower sections have more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Part II: Water Quality**

1. What are two pollutants that could make water turbid (cloudy)?
2. What is an ideal pH for most aquatic organisms?
3. What are two factors that can impact the amount of dissolved oxygen in water?
4. How does most oxygen become dissolved in water?

**Part III: Ecosystems and Diversity**

1. Name three abiotic factors in the ecosystem in your backyard.
2. Name three biotic factors in the ecosystem in your backyard.
3. What is the difference between a producer and a consumer?
4. What is the difference between a predator and a scavenger?
5. From which abiotic factor do producers gain energy to make food?
6. Draw a food chain containing a producer and two consumers (an herbivore and a carnivore).