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

**Ecology SGI Quiz #1 Study Guide**

1. **Define Each of the Following:**
	1. **Carnivore**
	2. **Omnivore**
	3. **Herbivore**
	4. **Producer**
	5. **Consumer**
	6. **Decomposer**
	7. **Abiotic Factor**
	8. **Biotic Factor**
	9. **Population**
	10. **Ecosystem**
	11. **Invasive Species**
2. **Competition exists between organisms in an ecosystem. Identify factors within an ecosystem that would promote competition.**
3. **What service does a decomposer provide to an ecosystem?**
4. **Describe the *Tragedy of the Commons*.**
5. **Identify factors that define a biome. List the biomes that we’ve discussed in class.**



1. **Use the following information to complete the Trophic Level Pyramid above.**
2. **Producer, Primary, Secondary, and Tertiary.**
3. **Illustrate the 10% Rule. How does this determine the number of organisms found on each level? Provide an example.**
4. **Explain/Illustrate how energy enters the 1st trophic level and then travels up through the additional trophic levels.**

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1. **Use the above diagram to answer the following questions**
	1. **Identify short term effects on this ecosystem if phytoplankton decreased.**
	2. **Identify long term effects on this ecosystem if phytoplankton decreased.**
	3. **Identify the producer/s in this ecosystem.**
	4. **Identify the primary, secondary, and tertiary consumers in this ecosystem.**
2. **How can human activity decrease Biodiversity.**