Name: Quang Huynh Ecology Part 1

Go to the following link on a lesson about Autotroph vs. Heterotroph and answer the following questions based on the video

<https://www.youtube.com/watch?v=gUt__nYl7sY>

1. **Define autotroph** = Organisms that make their own energy

2. **Define photoautotroph** = Performs photosynthesis to convert sunlight into glucose.

3. **The three raw materials (reactants) of the process of photosynthesis are**: Energy, H20, CO2 or

Sunlight, Water, Carbon Dioxide

4. **The three products of the process of photosynthesis are:** Glucose, Oxygen, Water

5. **Besides plants, what two organisms are photosynthetic?** Cyanobacteria and Algae.

6. **Define chemoautotroph** = Performs chemoautotroph to convert chemicals into glucose.

7. **What is an example of a chemoautotroph**? Some bacteria

8. **What are autotrophs often called because they produce energy for the food chain**? Autotrophs are often called producers because they produce energy for the food chain.

9. **Define heterotroph** = Organisms that cannot make their own energy.

10. **Define consumer** = An organism that finds and eats food for energy.

11**. Define herbivore =** An organism that only eats plants.

**12. What is an example of an organism classified as herbivore?** Bunnies

**13. Define carnivore =** An organism that only eats animals

**14. What is an example of an organism classified as a carnivore?** Wolves

**15. Define omnivore =** An organism that eats both plants and animals.

**16. What is an example of an organism classified as an omnivore?** Bears

**17. Define decomposer =** An organism that obtain nutrients from dead organisms.

**18. Define detritivores =** An organism thatingests dead organisms.

**19. What is an example of an organism classified as detritivores?** An earthworm

**20. Define saprophytes =** An organism that absorbs nutrients from dead organisms.

**21. What is an example of an organism classified as a saprophyte?** Saprophyte mushrooms and fungi.

**22. What do heterotroph get their energy from?** Heterotrophs get their energy directly or indirectly from autotrophs.