

Name: _____

TOPIC 9: Ecology

Please use the [Council Rock Video Podcast](#) to guide you

1. Write down the levels of ecosystem organization from smallest to largest
organelles → cells → tissues → organ → organ system
2. Autotrophs _____ make their own food, while heterotrophs _____ eat other organisms for food.
3. When you move up an energy pyramid, the amount of available energy (circle one) ↑  ↓ 
4. What is the difference between a food chain and a food web?
Food chain is a linear relationship. - Grass → grasshopper → bird → fox
Food web is many interconnect food chains.
5. What is the difference between abiotic and biotic factors?
abiotic – non living things that affect organisms (like oxygen, sand, water, etc.)
Biotic – living things that affect organisms (predators, prey, etc.)
6. Explain the following organisms interactions
 - a. Competition – many organisms fighting for the same resources.
 - b. Predation – organism that eats prey
 - c. Symbiosis – a relationship in which two species have living close to one another.
 - i. Mutualism – both species benefit
 - ii. Commensalism – one species benefits, the other one is unaffected
 - iii. Parasitism – one species benefits, the other is harmed
7. Native/indigenous _____ species are those that are naturally found in a location, while invasive _____ species are accidentally or purposefully introduced to a new area
8. Explain the difference between
 - a. Threatened – see movie
 - b. Endangered
 - c. Extinct
9. What is succession? – recovery of an ecosystem after a disaster.

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