

Name: _____

Date: _____

Period: _____

Unit 2 Concept Map

Week # _____

Ecosystems

Organization

1. Many individuals of the same _____

make up a ↓

2. _____

and ↓

3. Many populations make up a _____

and ↓

Several communities make up an ecosystem

only include

4. _____ factors, or living factors

5. _____ factors, or non-living factors

such as ↓

6. _____, air, _____

which interact with

Matter

7. Matter _____, so that it's reused

for example

in the water cycle... ↓

8. H₂O is _____ changed from a solid, to a liquid, to a gas

in the carbon cycle...

9. Before humans, most carbon was in _____.

10. Humans now burn _____ which adds carbon into the _____.

Relationships

Non-Feeding Relationships

11. _____: ☺ ☺, ++

12. Parasitism: _____, +-

13. _____: ☺ ☹, + 0

Feeding Relationships

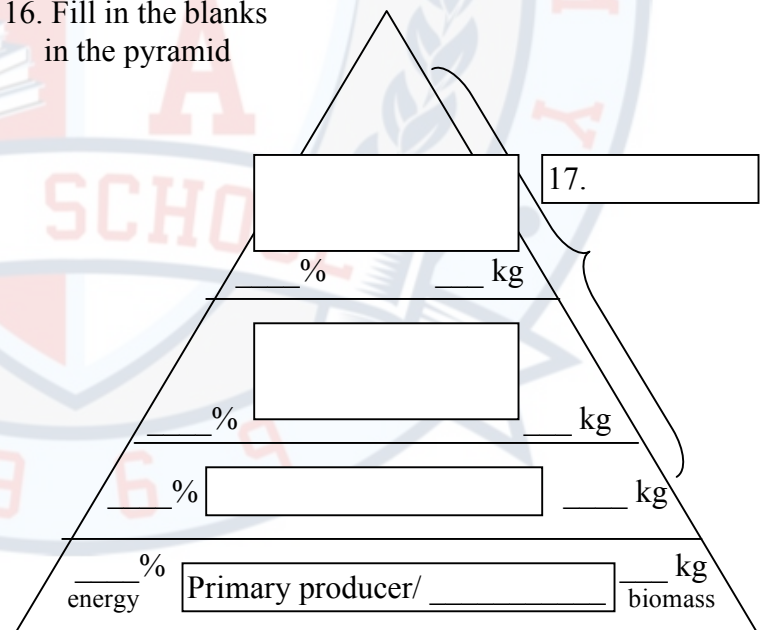
shown by

14. Food chains and _____

15. With arrows that show how _____ flows from _____ to various consumers.

Energy Flow

16. Fill in the blanks in the pyramid



Populations change because of:

18. _____: like pollution, deforestation

19. Population sizes of organisms: if the predator population increases, then the _____ population decreases

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Practice Questions

Directions: Answer the questions below.

1. List the autotrophs in the food web:

2. List 3 abiotic factors that might affect organisms in the food web:

3. Which trophic level has the most biomass? _____

4. When the grasshopper eats grass, how much energy is passed on? _____

5. Write a food chain with 4 organisms:

6. What would happen to the deer and mountain lion populations if all the trees and shrubs were cut down. _____

7. Determine the level of organization for each example.

a. Lake Michigan _____

b. All the lakes in the world _____

c. Turtles, fish, and flies _____

d. A turtle _____

e. Four turtles _____

f. The earth _____

8. Match the type of relationship with the corresponding example.

a. A leech feeds on the blood of a human, taking away nutrients from the human.

i. Mutualism

b. Clownfish lives among the sea anemone getting protection and feeding the sea anemone with scraps

ii. Commensalism

c. Caribou eat plants by digging them up, creating small holes. After the caribou leave, the arctic fox uses the hole to look for small insects.

iii. Parasitism

9. Matter such as water is cycled in an ecosystem. What is the main process in which this is done?

10. Before humans, what were the 2 main sources of carbon? What are the two main sources of carbon today? _____

