

ECOLOGY QUIZ ONE

PL - explain how energy moves from organism to organism in a food web;

Directions: Choose the correct answer for each of the questions. **DO NOT WRITE ON THIS QUIZ.**

1. Which of these organisms (living thing) is a part of the group that produces all of the available energy in a food web?

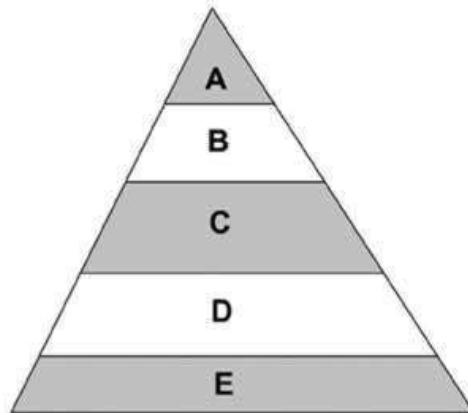
- A) Fly
- B) Grass
- C) Mouse
- D) Sun

2. Which population of organisms would begin the flow of energy through a desert food web?

- A) coyotes
- B) cactus finch
- C) beaded lizards
- D) mesquite shrubs

3. How do the animals in an ecosystem **MAINLY** acquire the sun's energy?

- A) They absorb energy through their skins.
- B) They obtain energy when they drink water.
- C) They obtain energy trapped and stored by plants.
- D) They can convert the Sun's energy into chemical energy.

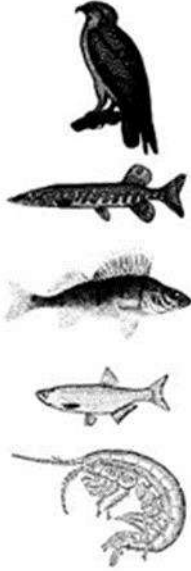


4. Examine the energy pyramid shown above. Suppose that your teacher hands you a clump of grass and a rabbit. You are told to place them on the correct level of the energy pyramid. On which levels would you place the grass and the rabbit?

- A) grass on level B, rabbit on level A
- B) grass on level D, rabbit on level E
- C) grass on level E, rabbit on level D
- D) grass on level A, rabbit on level B

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5. Maria assembled pictures of the organisms seen ABOVE to represent a simple aquatic food chain. What **MUST** Maria add to make this food chain model more accurate?

- A) Arrows to show the flow of energy.
- B) The sun, a producer, and arrows to show the flow of energy.
- C) The sun and arrows to show the flow of energy.
- D) Maria should color the organisms and then add arrows to show the flow of energy.

In a simple food chain, small fish eat algae; bigger fish eat the smaller fish; bears eat the bigger fish.

6. Using the above scenario, which of these would have the **largest** amount of energy?

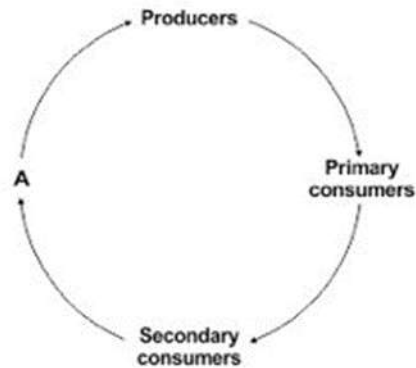
- A) Algae
- B) Bears
- C) Big Fish
- D) Small fish

7. In any ecosystem, decomposers are important for all **BUT** one of the following.

- A) They are important in keeping the nitrogen cycle going.
- B) They produce most of the food that the ecosystem relies on.
- C) They are important in the carbon cycle, in releasing carbon from dead organisms.
- D) Every other organism in the ecosystem is at least indirectly dependent upon them.

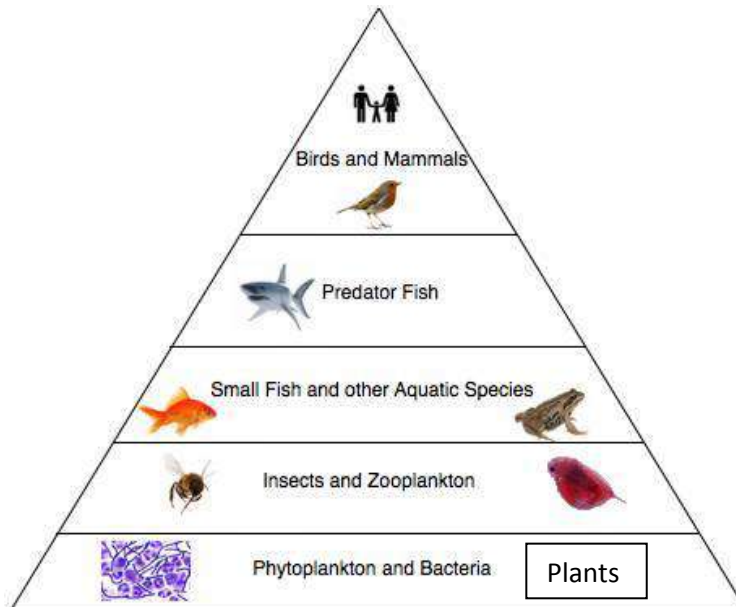
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8. In order for matter to recycle and return in the food chain shown here, what **must** be present at level A?

- A) Producers
- B) Decomposers
- C) Tertiary consumers
- D) Secondary consumers



9. Based on the pyramid above, which organism(s) provide the **MOST** available energy?

- A) predator fish
- B) birds and mammals
- C) insects and zooplankton
- D) phytoplankton and bacteria and plants

10. Based on the energy pyramid above, which group of organisms is the **primary consumer**?

- A) predator fish
- B) birds and mammals
- C) insects and zooplankton
- D) phytoplankton and bacteria