

Energy Flows

Real World Ecosystems
Learner Worksheet
Grade Level: 5-8



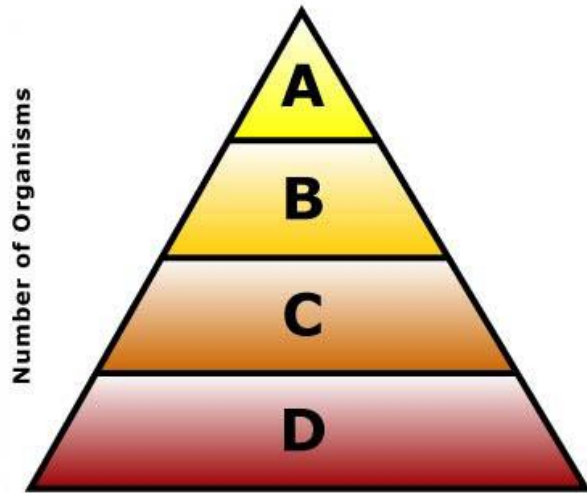
Name: _____

To help you answer the questions on the worksheet, first read the Energy Flows Backgrounder.

Complete each of the sentences given below with the appropriate term.

1. The major source of energy for living organisms on Earth is _____
2. Plants are able to convert carbon dioxide from the atmosphere into organic carbon by the process of _____
3. Organisms such as plants, are known as _____ or _____
4. An animal that relies solely on plant life as a food source is referred to as a _____
5. A coyote is considered to be a _____ consumer when it eats a rabbit.
6. Organisms such as bacteria and fungi that feed off decaying organisms may be referred to as _____
7. For any trophic level, about _____% of the available energy is transferred, on average to the next trophic level,
8. An organism that eats from more than one trophic level is referred to as/an _____

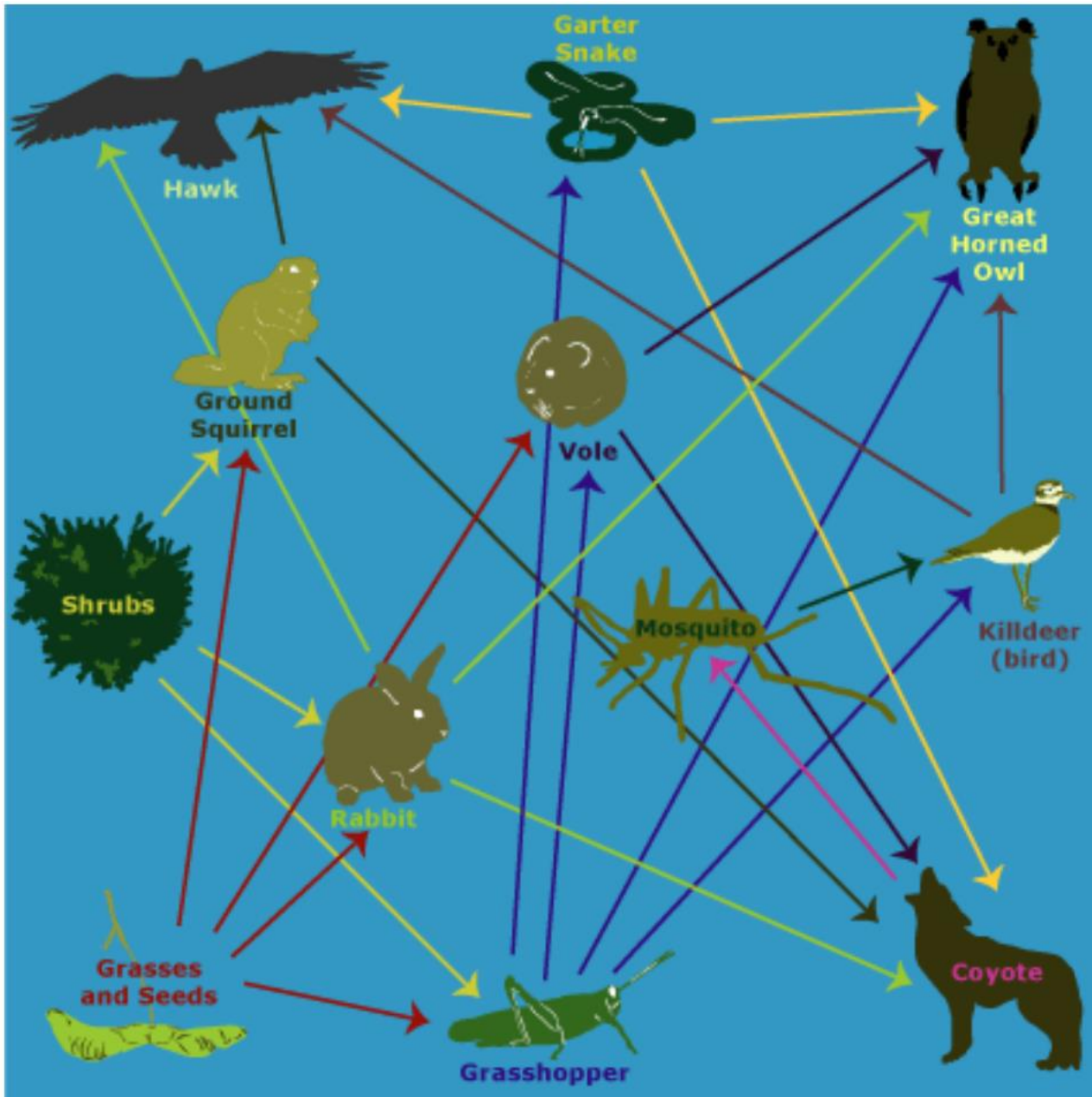
Use the diagram to answer questions 9 and 10.



9. Organisms that belong to level C on the diagram are referred to as

10. Why are there fewer organisms at level A than at level D?

Use the food web given below to answer the following questions:



11. Identify all organisms in the food web that could be considered secondary consumers:

12. Identify all organisms in the food web that could be considered to be tertiary consumers:

13. From the food web given, identify and sketch a food chain that consist of six steps (trophic levels.)

14. A pesticide is sprayed to get rid of an infestation of grasshoppers within the ecosystem represented by the given food web. Which organisms are affected by this loss of a food source? What might be the result of this?
