

Name _____

Date _____

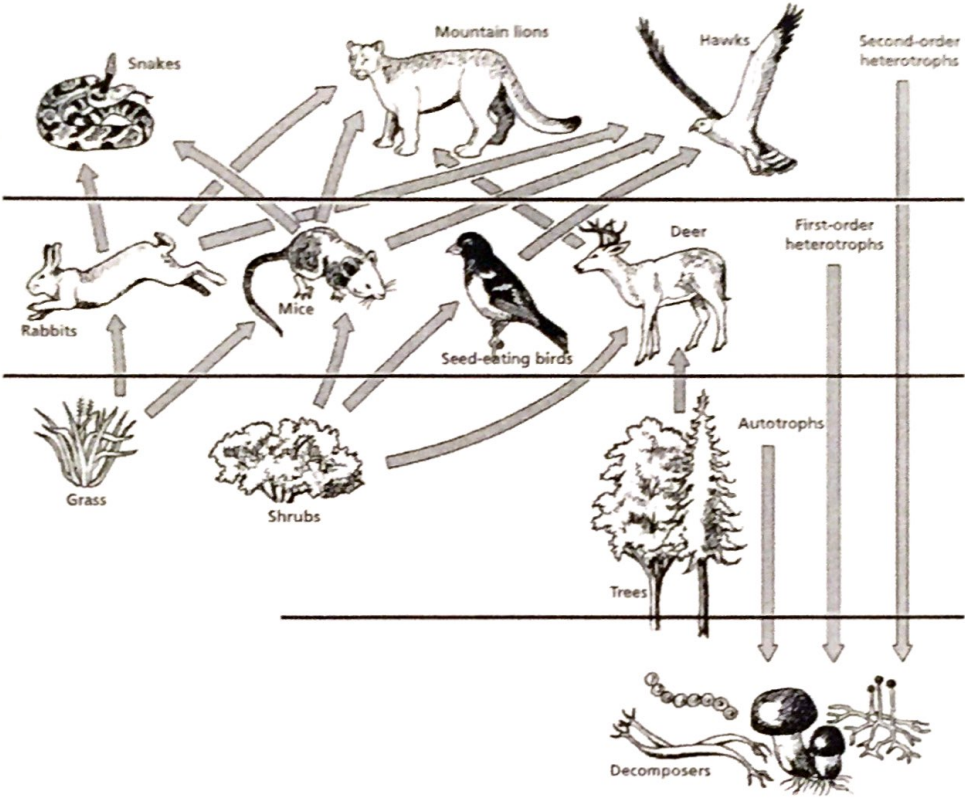
Class _____

Master 1

A Food Web

Use with Chapter 2, Section 2.2

Basic Concepts



BASIC CONCEPTS

TRANSPARENCY MASTER 1 BIOLOGY: The Dynamics of Life

1

Name _____

Date _____

Class _____

Worksheet 1

A Food Web

Use with Chapter 2, Section 2.2

Basic Concepts

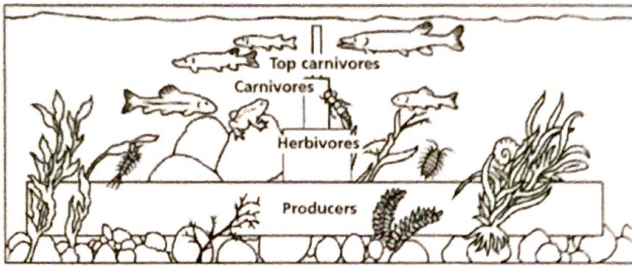
- At which level of the food web is the supply of energy the greatest? Explain.
- Which feeding relationship do first-order heterotrophs have in common?
- Which feeding relationship do second-order heterotrophs have in common?
- Explain why plants are called autotrophs.
- Food webs and food chains both involve multiple trophic levels. How do they differ?
- Use the transparency to describe a food chain that includes a mountain lion and a shrub.
- How might the organisms pictured in the food web be affected if most of the mouse population was destroyed by disease?

2

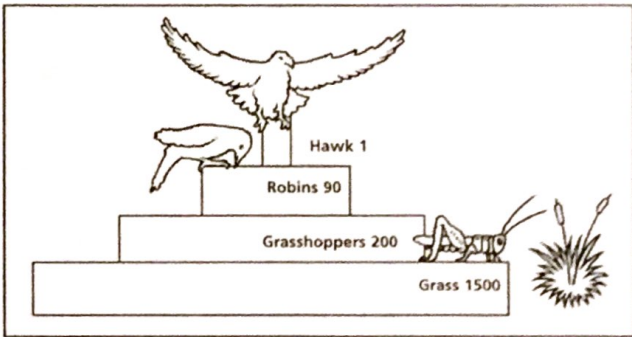
TRANSPARENCY WORKSHEET 1 BIOLOGY: The Dynamics of Life

BASIC CONCEPTS

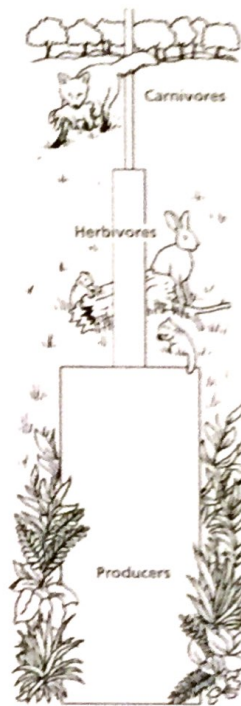
Pyramid of Energy



Pyramid of Numbers



Pyramid of Biomass



Master 2 Ecological Pyramids

Use with Chapter 2, Section 2.2

Basic Concepts

Name _____

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Class _____

Worksheet 2

Ecological Pyramids

Use with Chapter 2, Section 2.2

Basic Concepts

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1. What is the source of energy for all of the ecological pyramids shown in the transparency?

2. In general, what kind of organism makes up the base of the pyramid of energy? Provide some specific examples.

3. Examine the pyramid of energy shown in the transparency. Explain why only about 10% of the energy available at one trophic level is transferred to the next higher trophic level.

4. How is the energy loss from one trophic level to the next reflected in the pyramid of numbers shown in the transparency?

5. Suppose an ecosystem has a greater number of individual herbivores than individual producers. How would this affect the shape of the ecosystem's pyramid of numbers?

6. What quantity does a pyramid of biomass express?

7. Explain how biomass is calculated.