

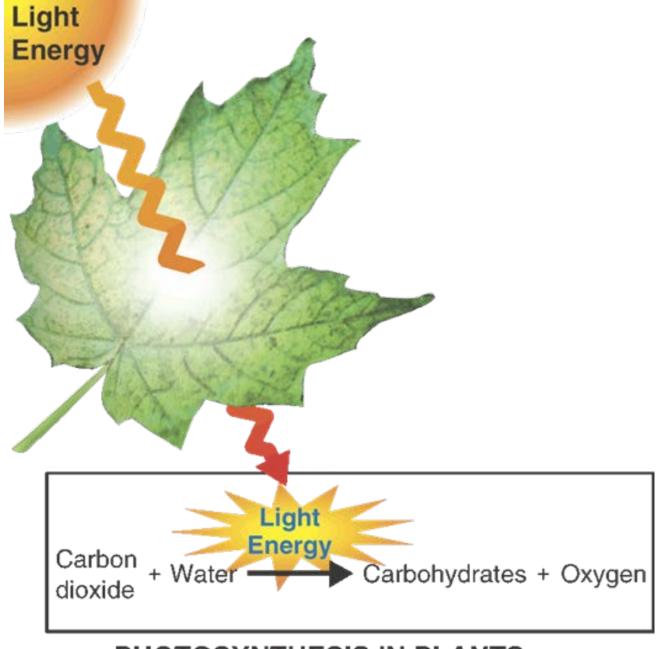


- A <u>species -</u>
- Populations -
- Communities -

• All of the above live in the same area

#### Producers

- Sunlight -
- Only plants, some algae, and certain bacteria can capture energy
- autotrophs.
- Because they make their own food, also called \_\_\_\_\_\_



#### PHOTOSYNTHESIS IN PLANTS

• There are many different types of heterotrophs (consumers).

• \_\_\_\_\_ eat plants.

- \_\_\_\_\_ eat animals.
- \_\_\_\_\_eat both plants and animals.
- Detritivores -
- Decomposers -

- Energy flows
- From \_\_\_\_\_\_ to \_\_\_\_\_

### **Trophic Levels**

- Each step in a food chain or food web is called a \_\_\_\_\_.
- Each consumer depends on the trophic level below it for energy.

### 3 uses of Consumed Matter

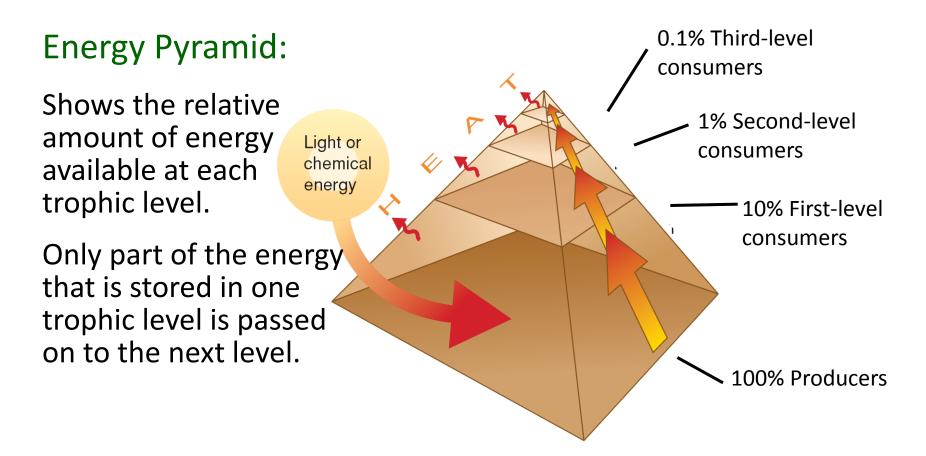
 \_\_\_\_\_\_ - building a nest, protecting young, looking for food
\_\_\_\_\_\_ - leaves, stems, bigger muscles

- 3. \_\_\_\_\_ into the atmosphere
  - 1. Most as heat

## **Ecological Pyramids**

 An ecological pyramid is a diagram that shows the relative amounts of energy or matter contained within each trophic level in a food chain or food web.

# **Ecological Pyramids**

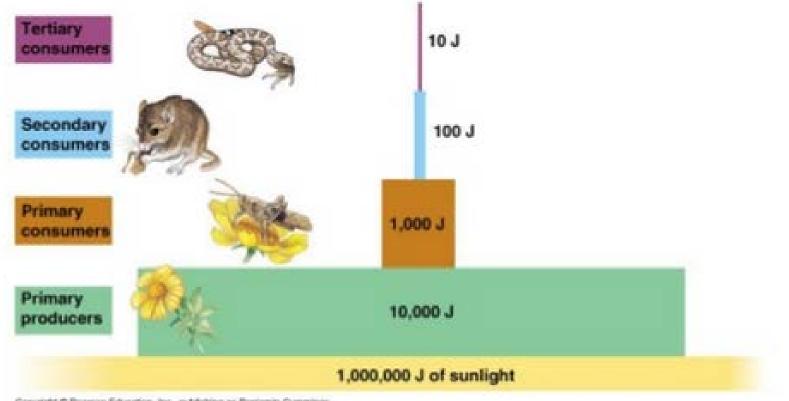


- —The more levels that exist between a producer and a top-level consumer in an ecosystem, the less energy that remains from the original amount.
- -Only about <u>**10 percent**</u> of the energy available within one trophic level is transferred to organisms at the next trophic level.

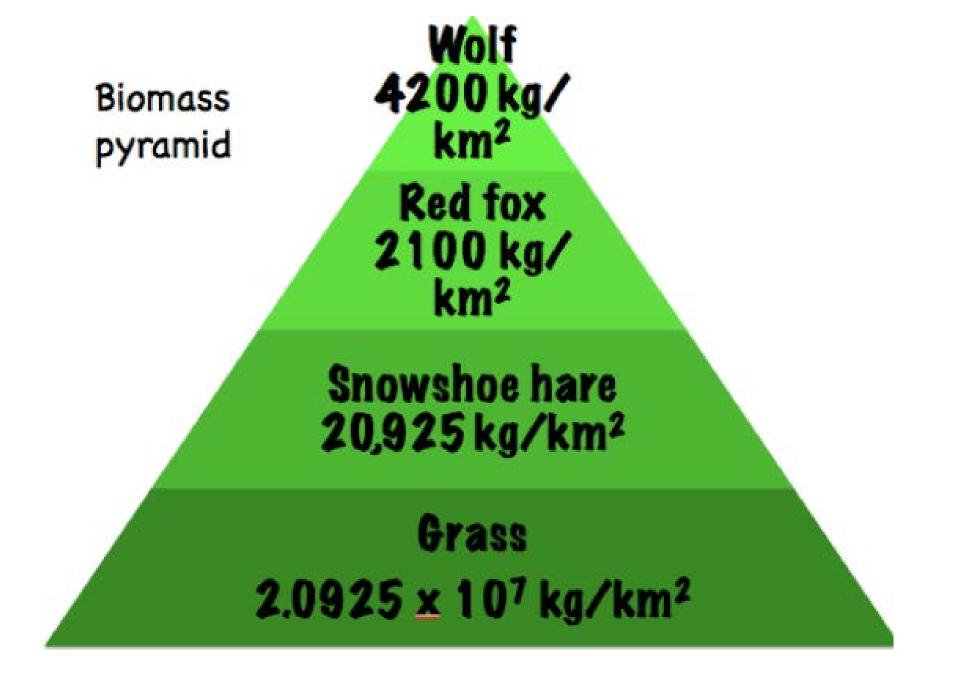
3 Ecological Pyramids – What is it and how is it measured(units)?

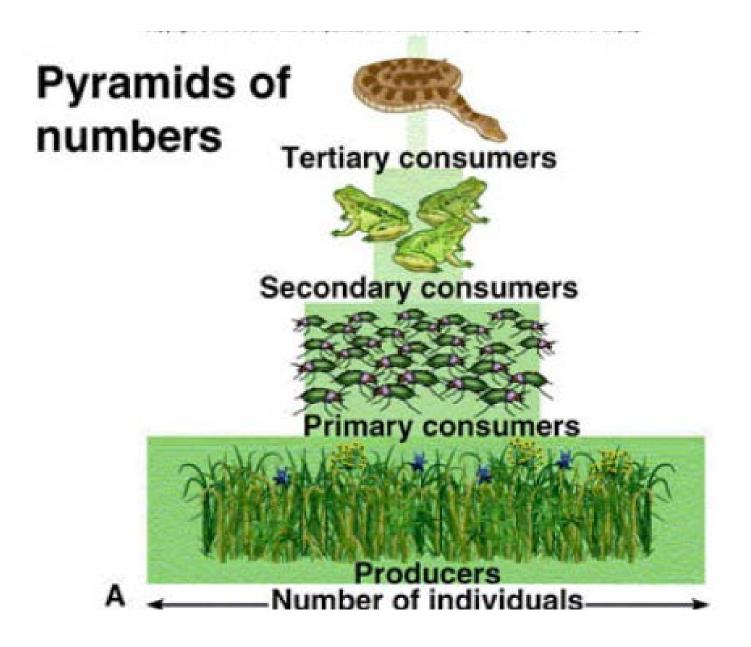
- 1. Pyramid of Energy -
- 2. Pyramid of Biomass -
- 3. Pyramid of numbers -

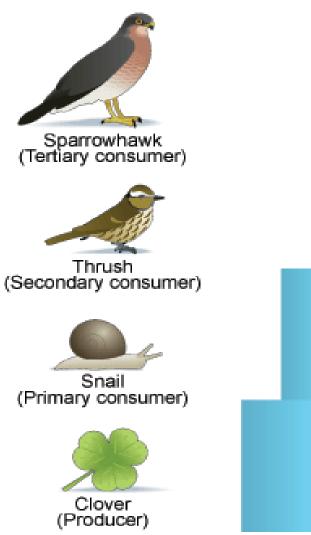
# **Trophic Levels**

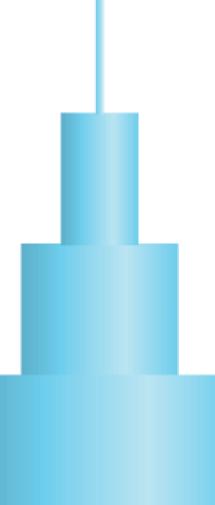


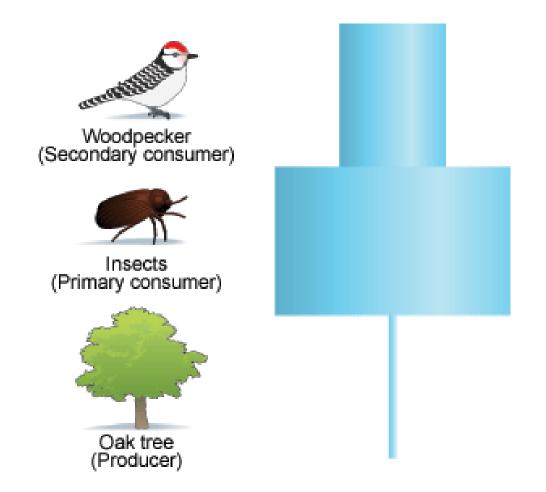
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Flea (Secondary consumer)



Rabbit (Primary consumer)



Grass (Producer)

