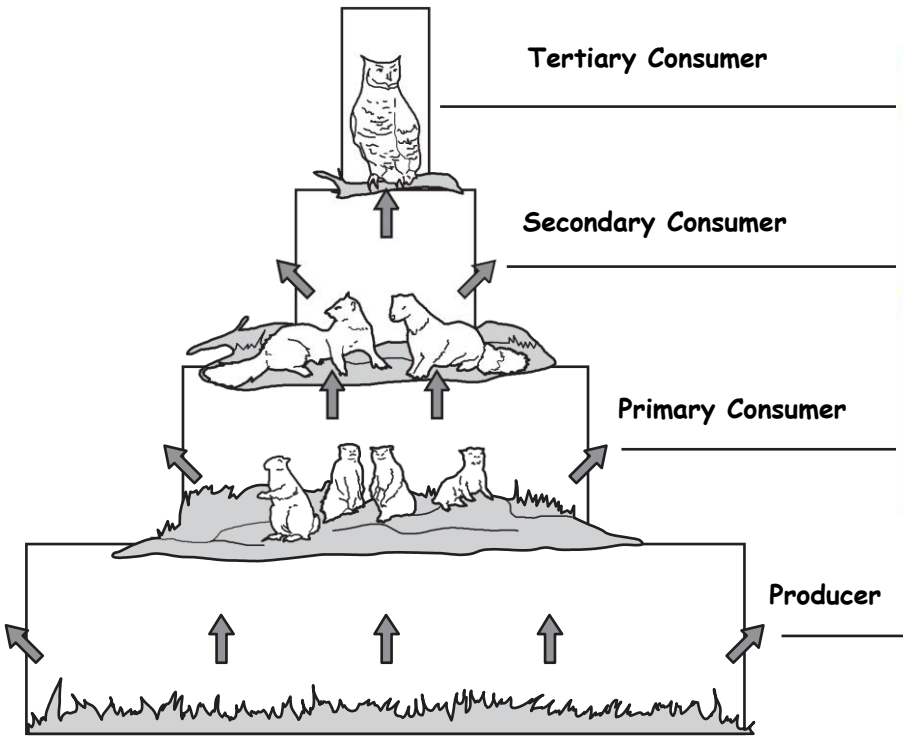
SECTION 13.6 | PYRAMID MODELS
Power Notes

Trophic Levels



Energy Pyramid:

Diagram that compares energy used by producers, primary consumers, and other trophic levels

Two other pyramid models:

1. **Biomass Pyramid**

Measures: Dry mass at each trophic level

2. **Pyramid of Numbers**

Measures: The number of individuals at each trophic level

The **law of Conservation of Energy** states that the total energy of an isolated system cannot change—it is said to be *conserved* over time. Energy can be neither created nor destroyed, but can change form, for instance chemical energy can be converted to kinetic energy in the explosion of a stick of dynamite.

The Law of the Conservation of mass: a fundamental principle of classical physics that matter cannot be created or destroyed in an isolated system, but can change form.

90% of the amount of available energy from one trophic level to another is lost as heat leaving only 10% of usable energy for organisms at each additional trophic level.