**Energy in Ecosystems**

**Producers vs. Consumers**

-Producers are organisms that get their \_\_\_\_\_\_\_\_\_\_\_\_\_\_ from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ resources. Also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because they make their own food.

-Consumers are organisms that get their energy by eating \_\_\_\_\_\_\_\_\_\_\_\_\_ things such as plants and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because they rely on organisms for food.

**Types of Consumers in Food Chains and Food Webs**

-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, carnivores, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, detritivores and decomposers.

Detritivores-organisms that eat \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_ organic matter.

Decomposers are detritivores that break down \_\_\_\_\_\_\_\_\_\_\_\_\_\_ matter into simple compounds.

Trophic levels are levels of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in a food chain.

Primary consumers are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because they eat the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Secondary consumers are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that eat primary consumers.

Tertiary consumers are carnivores that eat \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ consumers.

**Food Chains**

-It is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that links species by their feeding \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Example: Grass 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 🡪 snake 🡪 hawk 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Food Webs**

-They show the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ network of feeding relationships and the flow of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ within an ecosystem.

**What is an Energy Pyramid?**

-It is a diagram that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy used by producers, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ consumers and other trophic levels. As you go up the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, energy is \_\_\_\_\_\_\_\_\_\_ in each level.

**Rule of 10%**

-The rule of 10% in an energy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ explains how only 10% of energy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from one level to the next. The \_\_\_\_\_\_\_\_\_\_ of the pyramid has more energy available compared to the \_\_\_\_\_\_\_\_.