

TP: SW explore how energy flows through an ecosystem through demonstration and analysis

Do Now: "Turn & Talk"- Discuss what would happen to you if the wheat crop in the U.S. is wiped out.

Homework: Study for Test Monday 10/28

Ecology, Biotic/ Abiotic, Ecosystems, Sci Method, Energy Transfer

Energy Roles!

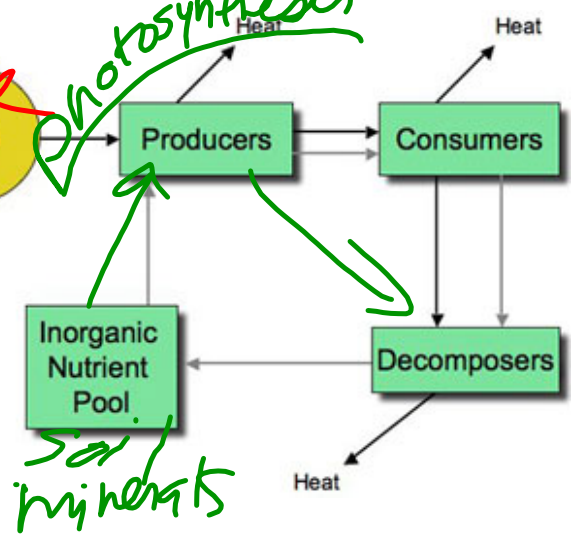
What is the source of our energy?



Photosynthesis

Describe the pathway the energy takes as it moves through the system.

T &T: What is the process that is involved?



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10/25/13

Do Now: Write 1-13 in your NB
Complete the sentences (DO NOT COPY)

Energy Roles

Sun is source of all energy!

_1. _____ is the process by which plants & algae change _____ energy from the _2____ into ___3___ energy. Organisms that carry out this process are called _____4_____.

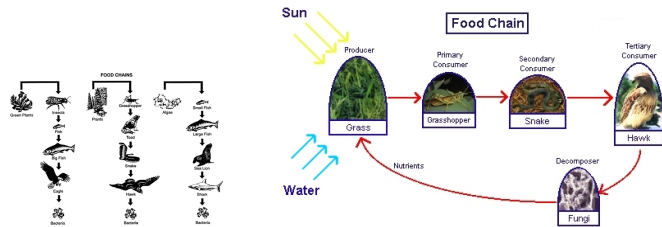
Organisms that eat other organisms instead of making their own food are called _____5_____. A _____6____ that eats mostly plants is called a _____7____. An example o one of these would be _8_____ because it eats mostly _____. A consumer that eats mostly meat is known as a _____9_____. An organism that eats plants and animals is an ___10_____. An organism that eats dead animals is a ___11_____. An organism that breaks down the remains of dead plants and animals is a _____12_____. Examples of these are _____13_____.

Each step in the flow of energy is a trophic level.

Food Chains & Webs

Food Chain- the flow of energy from one trophic level to another

An Example:



TP: SW explore trophic levels and energy pyramids in ecosystems through literacy and diagram analysis

Do Now: What is a producer?

What is a consumer?

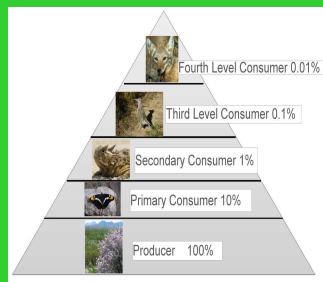
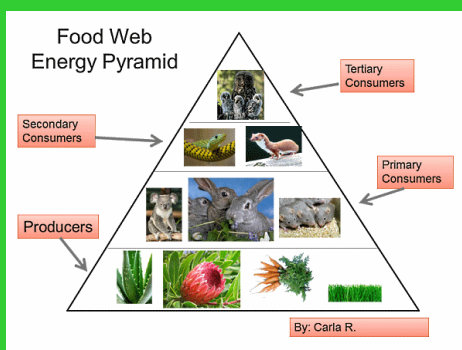
Homework

Test Monday 10/28

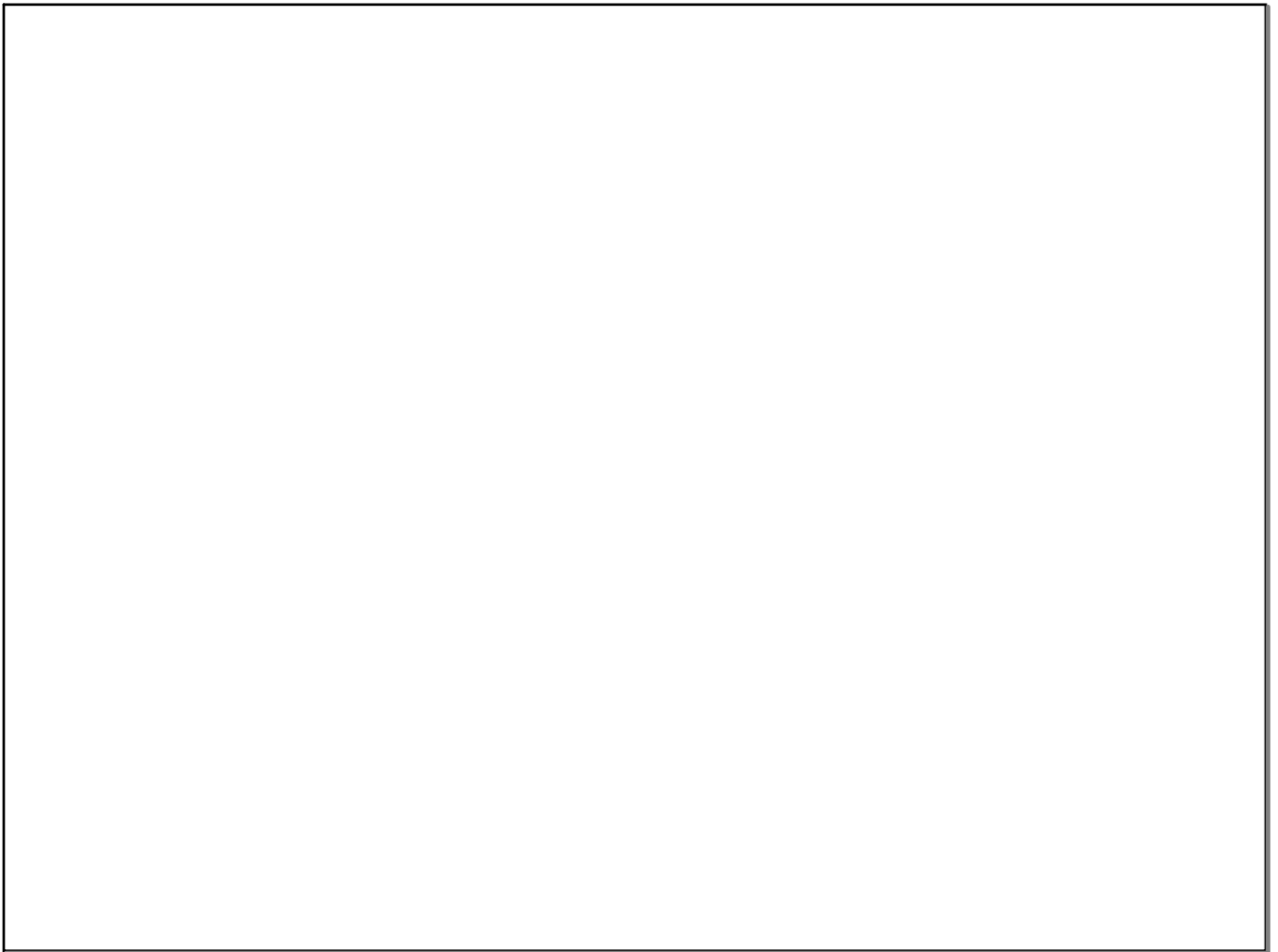
Complete the Food Web Packet/ Use as a Review Sheet

What is an energy pyramid?

Def: a triangular diagram that shows an ecosystem's **loss of energy**, which results as energy passes through the ecosystem's food chain. Each row in the pyramid represents a trophic (Feeding) level in an E. The area of a row represents the energy stored in that trophic level



What is an energy pyramid?



Use the diagrams to discuss the energy supply and amount available at each level.

