Matter in Ecosystems

An ecosystem needs more than energy to function. It also needs matter. Matter is used by organisms in ecosystems for life processes. Most ecosystems need over 20 elements. Just the plants in most ecosystems need 16 elements. These essential elements are called **nutrients**.

Untitled.notebook November 21, 2018

NOTES - Nutrients and Cycles.pdf

Re-order the descriptions on the right to line up with the terms on the left.

non-mineral nutrients magnesium - one of the atoms

in a chlorophyll molecule

mineral nutrients needed in relatively large amounts for

plant growth (found in commercial fertilizers)

-nitrogen, phosphorus and potassium

macronutrients

iron - needed to make hemoglobin

molecules in red-blooded animals

primary macronutrients

nutrients which enter an ecosystem from bedrock

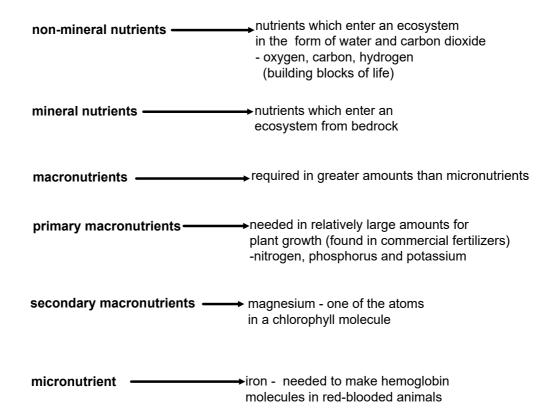
secondary macronutrients nutrients which enter an ecosystem

in the form of water and carbon dioxide

 oxygen, carbon, hydrogen (building blocks of life)

micronutrient required in greater amounts than micronutrients

Correct Matches



Remember: Energy flows through an ecosystem in one direction.

Nutrient Cycles

Nutrients are recycled through ecosystems...

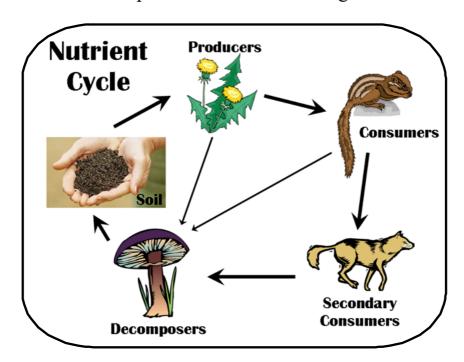
Producers get their nutrients from the soil, water and air.

Herbivores get nutrients when they eat producers.

Carnivores get nutrients when they eat herbivores.

Decomposers break down animal wastes and dead organisms.

The actions of decomposers release nutrients back into the soil, water and air so producers can use them again.



(Water and air not shown in this diagram.)

NOTES - Nutrients and Cycles.pdf