plants making food

food web

matter cycles

9-12

The chemical elements that make up the molecules of living things pass through food webs and are combined and recombined in different ways. At each link in a food web, some energy is stored in newly made structures but much is dissipated

At times, environmental conditions are such that plants and marine organisms grow faster than decomposers can recycle them back to the environment. Layers of energy-rich organic material have been gradually turned into great coal beds and oil

Plants alter the earth's atmosphere by removing carbon dioxide from it, using the carbon to make sugars and releasing oxygen.

6-8

The idea of atoms explains the conservation of matter: If the number of atoms stays the same no matter how the same atoms are rearranged, then their total mass stays the same.

Food provides molecules that serve as fuel and building material for all organisms.

Atoms may link together in well-defined molecules, or may be packed together in crystal patterns. Different arrangements of atoms into groups compose all substances and determine the characteristic properties of

Over a long time, matter is transferred from one organism to another repeatedly and between organisms and their physical environment. As in all material systems, the total amount of matter remains constant, even though its form and location change.

No matter how substances within a closed system interact with one another, or how they combine or break apart, the total mass of the system remains the same.

Organisms that eat plants break down the plant structures to produce the materials and energy they need to survive. Then they are consumed by other organisms.

The cycling of matter through food webs continues indefinitely because organisms decompose after death to return food material to the environment.

Plants use the energy in light to make sugars out of carbon dioxide and water.

Plants use the food they make immediately for fuel or materials or store it for later use.

All organisms, including the human species, are part of and depend on two main interconnected One organism may scavenge or decompose another. animals that feed on them, and finally the animals that feed on those animals. The other

Carbon and hydrogen are essential elements of living matter.

One of the most general distinctions among organisms is between plants, which use sunlight to make their own food, and animals, which consume energy-rich foods. Some kinds of organisms, many of them microscopic, cannot be neatly

3-5

Air is a substance that surrounds us, takes up space.

From food, people obtain fuel and materials for body repair and growth.

Almost all kinds of animals' food can be traced back to plants.

Over the whole earth, organisms are growing, dying, decaying, and new organisms are being produced by the old ones.

K-2

Most living things need water, food, and air.

Plants and animals both need to take in water, and animals need to take in food. In addition, plants need light.

Animals eat plants or other animals for food.