

Energy flow, food chains and food webs

What is the principal source of energy input to biological systems?

Energy flow, food chains and food webs

Describe the flow of energy through living organisms.

Energy flow, food chains and food webs

Is energy cycled or does it flow through an ecosystem?

Energy flow, food chains and food webs

What does a food chain show?

Energy flow, food chains and food webs

What is a food web?

Energy flow, food chains and food webs **Supplement**

How can overharvesting a food species affect a food web?

Energy flow, food chains and food webs **Supplement**

How can a foreign species introduced to a habitat affect a food web?

Energy flow, food chains and food webs

Define a producer.

Light energy from the Sun becomes chemical energy in producers, passes along food chains, and is eventually transferred to the environment as heat.

The Sun.

The transfer of energy from one organism to the next, beginning with a producer.

It flows in one direction through organisms and is transferred to the environment. It is not recycled.

Its population falls, so its predators have less food and its prey may increase.

A network of interconnected food chains.

An organism that makes its own organic nutrients, usually using energy from sunlight, through photosynthesis.

It may eat or compete with native species, so their populations fall.

Energy flow, food chains and food webs

Define a consumer.

Energy flow, food chains and food webs

Name the four classes of consumer in order.

Energy flow, food chains and food webs

Define a herbivore.

Energy flow, food chains and food webs

Define a carnivore.

Energy flow, food chains and food webs

Define a decomposer.

Nutrient cycles

Which process removes carbon dioxide from the air?

Nutrient cycles

Which processes return carbon dioxide to the air?

Nutrient cycles

How are fossil fuels formed?

Primary, secondary, tertiary and quaternary consumers.

An organism that gets its energy by feeding on other organisms.

An animal that gets its energy by eating other animals.

An animal that gets its energy by eating plants.

Photosynthesis, by plants and algae.

An organism that gets its energy from dead or waste organic material.

From dead organisms that were buried and not fully decomposed, over millions of years.

Respiration, decomposition (decomposers respire) and combustion.

Nutrient cycles

How does carbon pass from plants to animals?

Populations

Define an ecosystem.

A unit containing the community of organisms and their environment, interacting together.

By feeding. Carbon compounds in plant tissues are eaten by animals.