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Complete this Concept Review so you can keep a record of what you have learned.

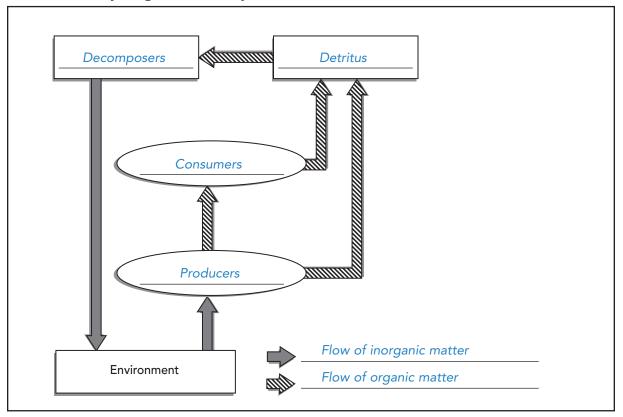
## Definitions

**Ecosystem dynamics** 

and disturbances

- The material and energy flow is <u>the exchange of matter</u> and energy between the living organisms in an ecosystem and between those organisms and their environment. • Chemical recycling is \_\_\_\_\_\_a natural phenomenon in which decomposers make inorganic matter available in an ecosystem by breaking down organic matter. the total mass of organic matter in an ecosystem at any given time. The biomass is • The primary productivity of an ecosystem is <u>the amount of new biomass generated by its</u> producers. • A disturbance is <u>an event that damages an ecosystem. It can lead to the elimination of</u> organisms and alter the availability of resources. the series of changes that occur in an ecosystem after a Ecological succession is disturbance and that continue until the balance of the ecosystem is restored. Factors influencing primary productivity in an ecosystem • The amount of light The amount of water available
  - Access to essential nutrients for producers (carbon, nitrogen, phosphorous, potassium)
  - The temperature

## Chemical recycling in an ecosystem



## Types of disturbances

Туре	Definition	Examples
Natural disturbances	They are triggered by environmental phenomena rather than by humans, but they damage ecosystems nonetheless.	Hurricane, ice storm, forest fire of natural origin
Human disturbances	Human activities that have a damaging effect on ecosystems.	Logging operations, oil spill, mining