

Ecology

study of life

is the study of the interactions among living things & their environments.

Organization

individual living thing

group of the same

can interbreed & produce offspring

group of different species

includes all of the organisms as well as the climate, soil, water, rocks and other nonliving things in a given area.

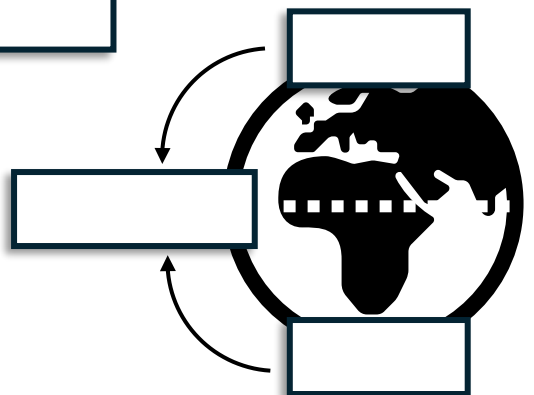
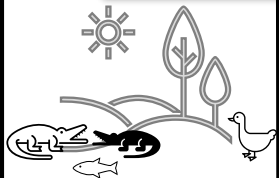
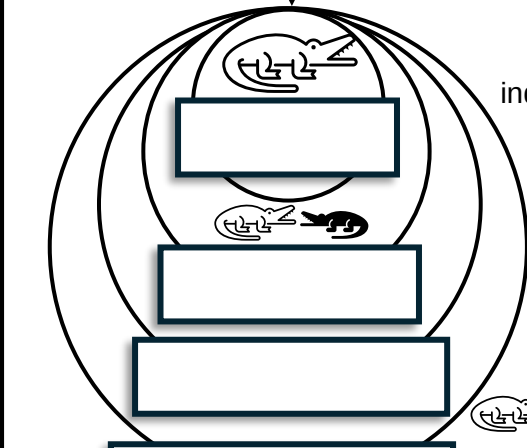
Variety of living things

Water, Food
Territory, Mates

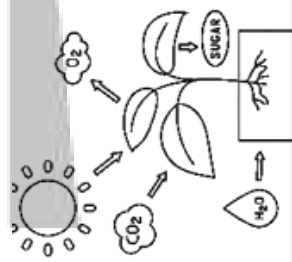
land

Lakes, rivers, streams, ponds

oceans



Energy in Ecosystems



Sun – main source of energy

All living creatures need **food** for **energy**.
Some organisms **make** their **own** food while **others** have to **eat** in order to get **energy**.



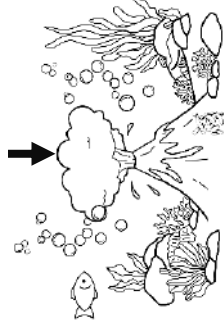
are organisms that get their **energy** by eating **other living** or once-living resources.

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“Different feeder.”

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Some **producers** live in places that never get sunlight - these organisms use **chemicals** to build important molecules.



Process of converting **sunlight** to **food**



6 + 6 + 6 + 6 + 6 + 6



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eat only **plants**

eat only **animals**



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Both **animals and plants** Break down **dead** things



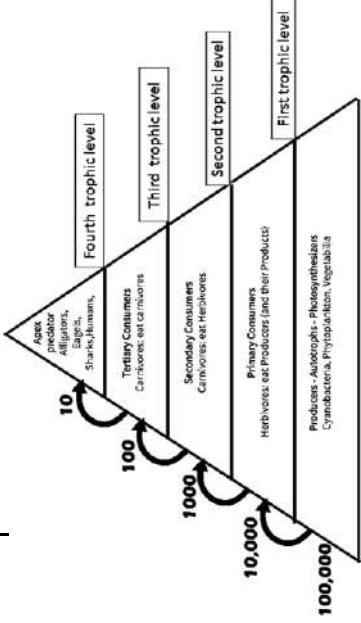
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- a complex **network energy** flow
- may have **multiple** feeding relationships

