

ECOLOGY

STUDY OF interactions
THAT TAKE PLACE
BETWEEN organisms

& THEIR environments

(includes BIOTIC & ABIOTIC)

biotic
LIVING

- ANIMALIA
- PLANTAE
- FUNGI
- PROTISTA
- EUBACTERIA
- ARCHAEBACTERIA

THE
KINGDOMS
←

abiotic
NON-LIVING

- ROCKS
- SOIL
- WATER
- AIR
- SUNLIGHT

Levels of Organization -

1. organism: an individual of a species (*)

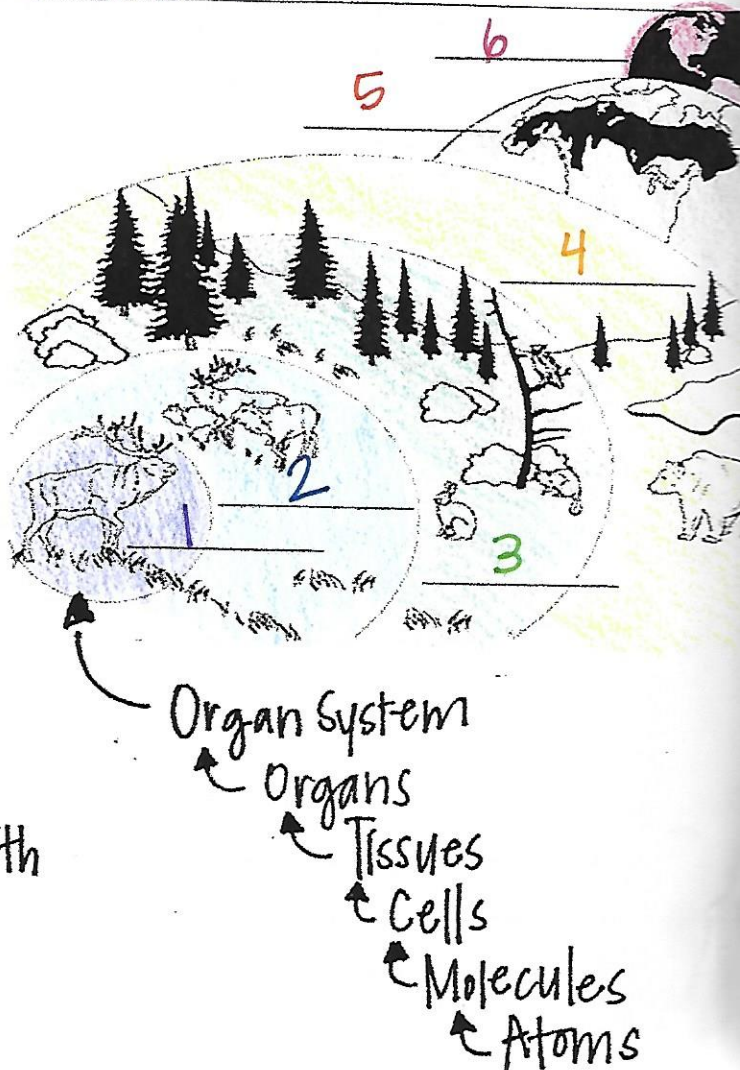
2. population: a GROUP of individuals of the SAME species living in the same area. ***

3. community: ALL of the different populations living in the same area at the same time. * * *

4. ecosystem: all the communities in an area & the abiotic factors.

5. biome: group of ecosystems with similar climates & communities.

6. biosphere: earth



Energy in Ecosystems

Thanks son!



Energy originates from the SUN!

Energy flows through ecosystems as one organism "consumes" another.

Producers

AUTOTROPH
self feeding

→ make their food via PHOTOSYNTHESIS.

light energy → chemical energy (glucose)

Consumers

HETEROTROPH
other feeding

→ must consume (eat) other organisms to obtain energy. (Most) can't make their own food.

Herbivores

Consume ONLY plants



Carnivores

Consume ONLY other animals.



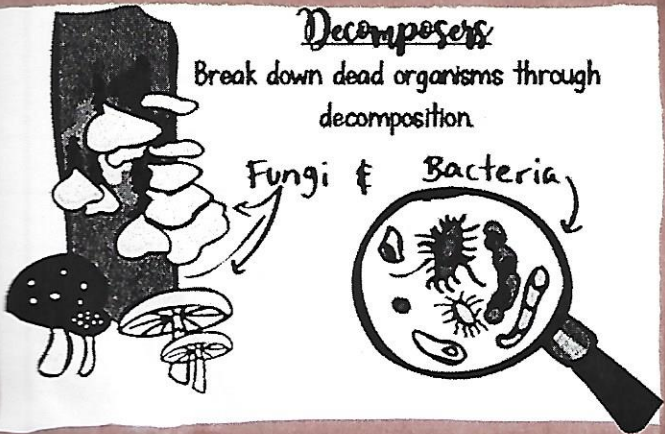
Omnivores

Consume plants AND animals



Decomposers

Break down dead organisms through decomposition.



Fungi & Bacteria

Detritivores

Consume (eat) decaying organisms

