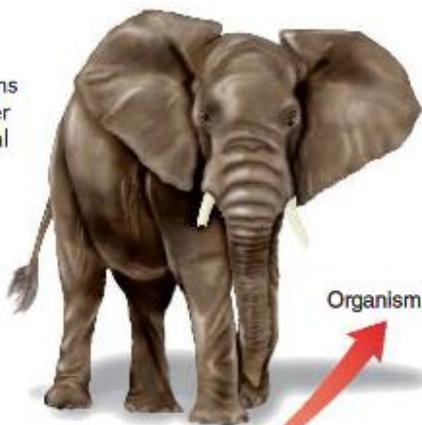


Levels of Organization

Organism
Organ systems work together in a functional organism.



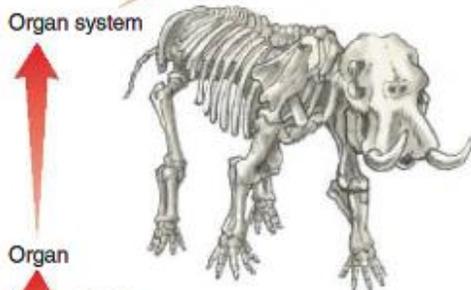
Organism



Population

Population
A population consists of organisms of the same species.

Organ system
(e.g., skeletal system) Tissues and organs make up organ systems.



Organ system

Organ
(e.g., bone) Tissues form organs.

Organ



Tissue
(e.g., bone tissue) Cells associate to form tissues.

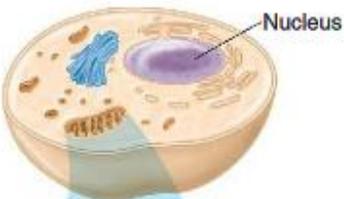
Tissue



Bone cells

Cellular level
Atoms and molecules make up the cytoplasm and form organelles, such as the nucleus and mitochondria (the site of many energy transformations). Organelles perform various functions of the cell.

Cell



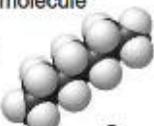
Nucleus

Organelle

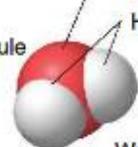


Chemical level
Atoms join to form molecules. Macromolecules are large molecules such as proteins and DNA.

Macromolecule



Molecule



Water

Oxygen atom

Hydrogen atoms



Community

Community
The populations of different species that populate the same area make up a community.



Ecosystem

Ecosystem
A community together with the nonliving environment forms an ecosystem.



Biosphere

Biosphere
Earth and all of its communities constitute the biosphere.