

## Intro to Anatomy (continued)

What are the requirements to be called "ALIVE"?

1. It must be highly organized and made of cells.
2. It must show growth + development (including reproduction + death).
3. It must require energy of some kind, and produce WASTES.
4. It must be able to respond + adapt to surroundings.

How are living things organized?

small

Atoms - C, H, O, N are the most common elements in living things.

Molecules - different atoms combined. (H<sub>2</sub>O, lipids,

carbohydrates, proteins,  
nucleic acids (DNA, RNA).

Organelles - structures inside  
a cell (mitochondria, nucleus,  
Golgi body, etc.)

Cells - smallest unit of life.  
\* is LIVING!

Tissues - groups of cells that  
work together for specific  
functions (4 Types).

Organ - group of tissues that  
work together (heart,  
stomach, brain, skin)

Body (Organ) System - group  
of organs that work  
together.

Organism - an entire living  
being.

Env. Sys. [ Population → Ecosystem →  
Biosphere (Earth)

largest