

Biological hierarchy (التنظيم الهرمي)

- 1- atoms → Smallest unit of matter.
- 2- molecules → group of atoms.
- 3- organelle (عضية) → membrane enclosed structure.
- 4- cell →
 - smallest unit of life .
 - simplest unit of life .
 - structure and functional unit of life
 - fundamental unit of life
 - Building block
- 5- Tissues (النسيج) → group of similar cells.
- 6- organ → group of tissues.
- 7- organ system → group of organ.
- 8- organism → one individual living things .
- 9- population → group of organism of same species .
- 10- community → group of organism of different species .
- 11- Ecosystem → Living + Non living .
- 12- Biosphere → System that support life .

Biology: is the science of life.

Life properties:

1- order → The highly ordered structure that typifies

life. living cells are the basis of this complex organization.

2- Reproduction → Organisms reproduce their one kind.

3- Growth and development → Inherited information in the form of DNA controls the pattern of growth and development of all organisms.

4- Energy processing

5- Response to the environment. → All organisms respond to the environmental stimuli .

6- Regulation → Many types of metabolisms regulate an organism's internal environment.

7- Biological adaptation.

Ex: katydid حشرة