Science

Science : approach to understanding the natural world that is based on **data**

data

1. 수치화 되는 것들, 정량화 되는 것들 => 이상적인 data
2. 규격화 될 수 없는 것들(묘사, 그림 등등) => 충분히 가치 있는 것

Hypothesis(가설)? Theories(학설)?

Hypothesis -> investigation, experiment -> abundant evidence(data) -> theory

Good theory is the one with broad explanatory power.

What is Life??

life

1. Order
2. Regulation
3. Growth and development
4. Energy proceesing
5. Response to the environment
6. Reproduction
7. Evolution

Species

- live in the same place and time
- have the potential to interbreed with one another in nature to produce healthy offspring

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Taxanomy(분류학)

The three domain of life

- Bacteria(세균)
- Archaea(고세균)
- Eukarya(진핵생물)

Bacteria and Archaea have prokaryotic cells
Eukarya have eukaryotic cells

Kingdoms consist of Domain eukarya

- Kingdom Plantae
- Kingdom Fungi

- Kingdom Animalia
- Protists (Not fit into any of ther three kingdoms)

Evolution

Evolution

- the fundamental principle of life
- **change** no matter better of worse
- species that are very similar share a more recent common ancestor

Natural selection

- Descent with modification
- Mechanism for descent with modification

Biological system

1. Molecules and Atoms
2. Organells(subcellular organelles)
3. Cells
4. Tissues
    - cells with a same specific function
5. Organs and Organ System
    - group of Tissues with similar functions.
6. Organisms(단일 개체)
7. Populations(개체군)
    - same species, locality
8. Communites(군집)
    - group of populations that interact each other
9. Ecosystem(생태계)
    - communites + environment(can be not-life thing)
10. Biosphere(생물권)