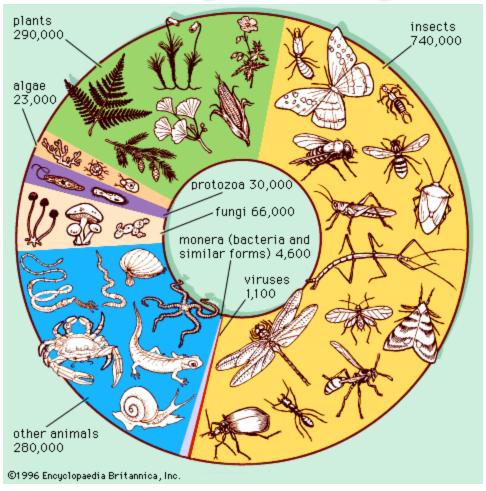
Characteristics of Living Things

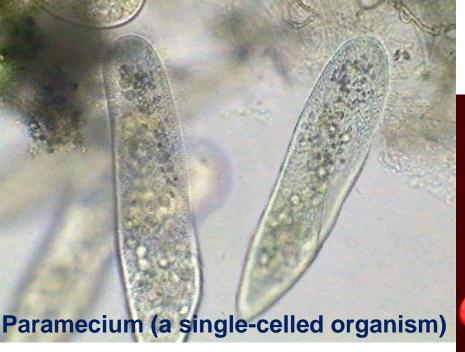


J. Mitchell August 2012

1. Living things are made up of cells.

 A <u>cell</u> is the smallest unit of an organism that can be considered alive.

One or many cells.





2. Living things *grow* and *develop*.

- Growth increase in number and size of cells
- Development cell differentiation, organ development, aging, and death.





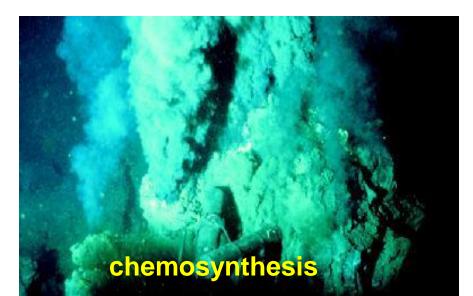


3. Living things obtain and use energy

- Energy can come from materials, sunlight, or chemicals.
- It is used for maintenance and growth.



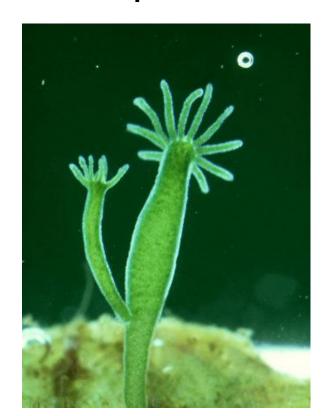




4. Living things reproduce

- Living things produce more living things.
- Sexual reproduction = 2 parents

Asexual reproduction = 1 parent





5. Living things respond to their environment

 Organisms detect and respond to stimuli** from their environment.

 Stimulus is a signal to which an organism responds, like sunlight or a rustling in the

nearby grass...



6. Living things are based on the same genetic code

- Organisms resemble their parents because they inherit their traits.
- Genetic code = DNA or RNA



7. Living things maintain a stable internal environment (homeostasis)

 Organisms need to keep conditions (like temperature, energy, pH, water levels...) inside their bodies constant, this is called homeostasis.

Homeostasis is a kind of balancing act inside organisms

8. As a group, living things change over time.

 Over many generations, species (groups of organisms) change as a result of mutations or natural selection.

