Basic concepts of biology

Organization of nature

Biosphere, ecosystem (EX: Florida Coast), community (organisms of the same ecosystem), population(EX: group of brown pelicans), organism(EX: brown pelican), organ system(EX:nervous system), organ(EX: brain),tissue(EX: nervous tissue), cell (EX: nerve cell), organelle (EX: nucleus), molecule(EX: DNA)

PRODUCERS:

- -provide the food for a typical ecosystem
- -photosynthetic organisms

CONSUMERS:

- -eats plants/other animals

-change complex matter into a source.

FOUNDATION FOR THE UNITY OF LIFE:

- -order: all living things exhibit complex organization (EX: sunflower seeds in a sunflower plant)
- -regulation: organisms maintain their internal environment (homeostasis)
- -growth& development: inherited information carried by genes controls the pattern of growth and development
- -energy and processing: organisms take in energy and transform it to perform in life activities
- -respond to its environment: responds to environmental stimuli
- -reproduction: reproduce its own kind
- -evolutionary adaptation: adaptations suited to their environments and are passed to offspring

PROKARYOTIC CELLS: **EUKARYOTIC CELLS:**