Put these terms in order from the smallest to the largest.

Atom

Biomes Biosphere

Cell Community

Ecosystem

Element

Organism

Compound/molecule

Organ System

Organ

Organelles

Tissue

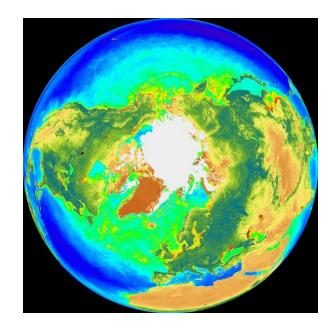
Population

Levels of Organization

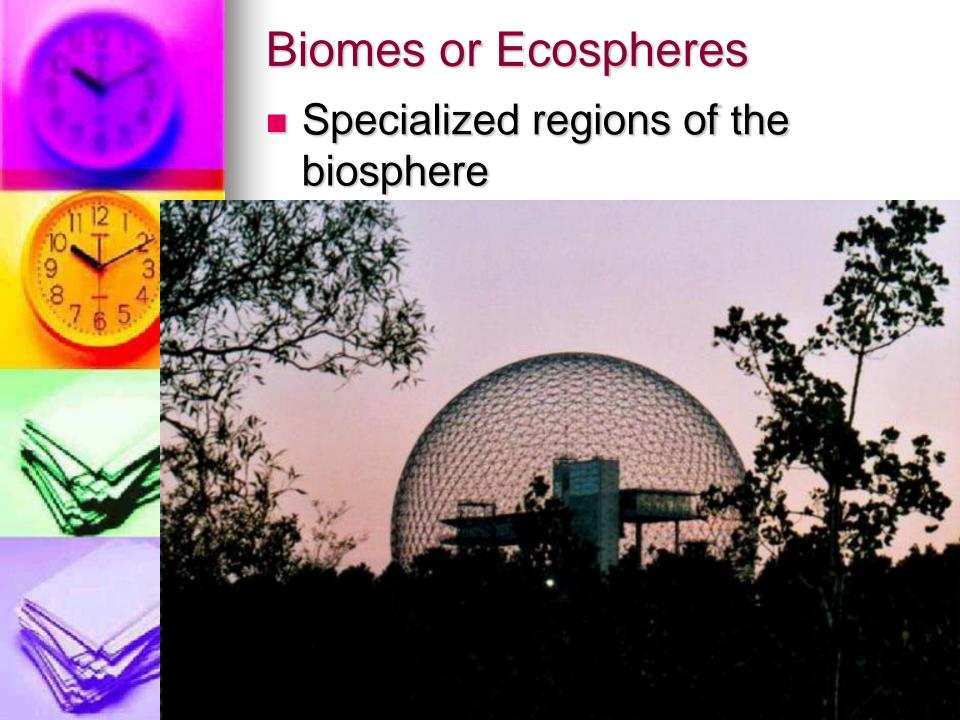
- Biosphere
- Biomes
- Ecosystem
- Community
- Population
- Organism
- Organ System
- Organ
- Tissue
- Cell
- Organelles
- Compound/Molec ule
- Element
- Atom



The Biosphere



- Part of the earth in which life exists.
- Its range = 8 km. above surface to 8 km. below surface of ocean.
- All living AND non-living things
- Divided into Biomes.





Ecosystems

- All biotic (living) and abiotic (nonliving) factors that INTERACT.
- Biotic factors: Living
- Abiotic factors: soil, water, temperature, elevation, and location on the earth.
- Examples of ecosystems: forest, pond, lake, grassland, and mountain.



Community

- Groups of many different species of organisms interacting in a particular area
- Only biotic factors that interact between different species of organisms
- Give me some examples



Population

- Group of organisms of ONE species that interbreed and live in the same place at the same time.
- Give me some examples



Individual Organism

- Individual living thing
 - You and I are considered individual organisms.
- Can you give me some more examples?



Organ Systems

- Groups of organs that work together to perform a specific function
 - Examples
 - Nervous System
 - Circulatory System
 - Respiratory System
 - Etc....



Organs

- Group of tissues that work together to perform closely related functions
 - Examples
 - Heart
 - Brain
 - Lungs
 - Etc...



Tissues

- Groups of similar cells that perform a particular function
 - Examples
 - Cardiac Tissue
 - Skeletal Tissue
 - Etc...



Cells

- The smallest functional unit of life.
- Two kinds of cells
 - Prokaryote
 - Bacteria
 - Eukaryote
 - Animal
 - Plant



Organelles

- Small "organs" in the cell
 - Mitochondria
 - Endoplasmic Reticulum
 - Nucleus



Compounds/Molecules

 Cells are composed of many chemical compounds-Two or more elements interacting



Elements

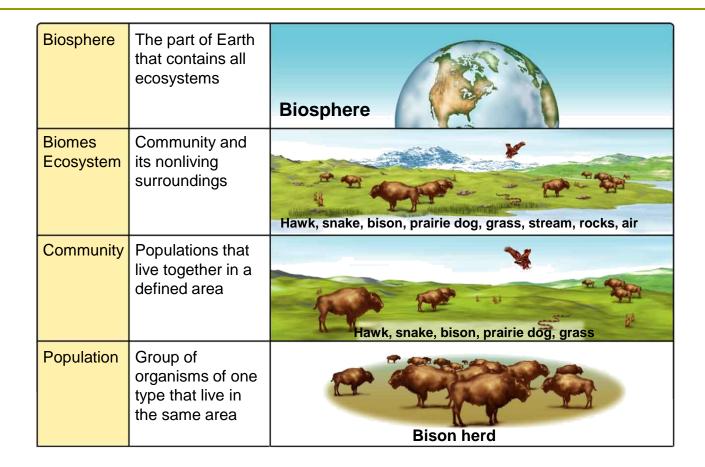
- Molecules are made up of element interacting with one another
- Elements are what are found on the periodic table
- The elements C, O, N, and H make up 96% of all living things



Finally the Atom

The SMALLEST particle of an element that has the characteristics of that element

Levels of Organization



Copy this information into notebook.

Levels of Organization (cont.)

Organism	Individual living thing	Bison
Groups of Cells	Tissues, organs, and organ systems	Nervous tissue Brain Nervous system
Cells Organelles	Smallest functional unit of life	Nerve cell
Molecules Compounds Elements Atom	Groups of atoms; smallest unit of most chemical compounds	Water DNA

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