

Day 02 – 1/29/14

Student Learning Objectives

By the end of this class you will be expected to understand:

- The organization of the fields of science
- Characteristics common to all living things
- The organization of living things, and humans in particular
- The nature of atoms, bonds, and polarity
- The four major macromolecules found in living things including humans

Support videos:

- Orientation to science
 - <http://www.youtube.com/watch?v=wdJFTC44meI>
 - <http://www.youtube.com/watch?v=shw33M7D9oI>
- Orientation to chemistry
 - http://www.youtube.com/watch?v=QnQe0xW_JY4
 - http://www.youtube.com/watch?v=HVT3Y3_gHGg
 - <http://www.youtube.com/watch?v=JcNlMy2sllw>

Assigned reading:

- Chapter 2, pages 22-32

Vocabulary:

- Organization level
 - Atom
 - Molecule
 - Cell
 - Tissue
 - Organ
 - Organ System
 - Organism
 - Population
 - Community
 - Ecosystem
 - Biosphere
- Chemistry
 - Proton
 - Electron
 - Neutron
 - Ionic bond
 - Covalent bond
 - Polar covalent bond
 - Nonpolar covalent bond
 - Hydrophilic
 - Hydrophobic
 - Macromolecule
 - Carbohydrate
 - Lipid
 - Amino Acid
 - Nucleic Acid