

Unit 2, Part 1 Advanced Biology Test Review

Name: Answer Key Date: _____ Hr: _____ Test #: _____

- What are the three subatomic particles in an atom? Name the charge of each and its location in the atom.
 - Name: Proton
 - Location: Nucleus
 - Charge: Positive (+)
 - Name: Neutron
 - Location: Nucleus
 - Charge: Neutral
 - Name: Electron
 - Location: Electron cloud
 - Charge: Negative (-)
- Define atom. Smallest unit of an element with all the properties of that element
- Define element. Substance that cannot be broken down to simpler substances by ordinary means
- All matter in the universe is composed of atoms.
- List and define the three types of matter.
 - Solid - matter with definite volume and shape
 - Liquid - matter with definite volume but not shape
 - Gas - matter with no definite volume nor shape
- What is an ion? atoms which carry (+) or (-) electrical charge due to loss or gain of electrons
- What is the name of a bond where atoms share electrons? Covalent
- What is the name of a bond where atoms transfer electrons? Ionic
- What happens to a reaction when a catalyst is added? Speeds up reaction by reducing amount of activation energy needed to start a reaction
- How is the concentration of a solution determined? Amount of solute dissolved in a fixed amount of the solution
- What is the pH range of an acid? < 7
- What is the pH range of a base? > 7
- If you add 10% sulfuric **acid** to a solution, what type of ions would increase in the solution?
The concentration of Hydrogen ions (H⁺) will increase
- What ion does an acid have more of? H⁺ - Hydrogen ion