

Unit 1: Basic Chemistry for Biology

QUIZ STUDY GUIDE

Things to know:

1. Vocabulary from Activities 1-4.
 - There are 24 total vocabulary words.
 - You will see 12 of them on the quiz tomorrow.
2. Periodic Table Element Squares
 - Know how to find the number of protons, neutrons and electrons when given an element on the periodic table.
3. Particles
 - Know the differences between protons, neutrons and electrons.
4. Atom Models
 - Be able to draw atoms using the Shell Model and the Electron Dot Model
5. Bonds
 - Know the difference between a covalent bond and an ionic bond.
 - Be able to answer questions about a bond similar to the ones on Activity 2.
6. Chemical Equations
 - Be able to recognize whether an equation is balanced or not.
 - Be able to balance an equation that is unbalanced.
7. Chemical Reactions
 - Be able to identify an exergonic/endergonic reaction by looking at its reaction graph.
8. Solutions
 - Know the parts of a solution.
 - Be able to pick which solution has a higher concentration of dissolved solute.
9. pH
 - Know the pH scale and which side means acid/which side means base.
 - Be able to identify an acid or base based on ratio of H^+ ions to OH^- ions.

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