

Study Guide for Test 3 Chemistry Applications

1. What is the difference between subscripts and coefficients in a chemical formula
2. Determine the charge on an atom when given the formula. (Know what charge groups 1, 2, 6, 7 tend to take on)
3. Determine the formula for a molecule when given the atoms from groups 1, 2, 6, and 7
4. Identify and name Salts, Acids, or Bases
5. Interpret a chemical equation
 - Determine the reactants and the products
 - Determine if the reaction is balanced
 - Why should a reaction be balanced?
6. How are the following biomolecules used in the body?
 - Protein
 - Carbohydrate
 - Nucleic Acids
 - Lipids
7. Compare the two types of nucleic acids.
 - a.
 - b.
8. How are cellular products made from the instructions in the genetic material?
9. What is the purpose of Mitosis (cell division)
10. List the functions of the structures you would find in a Prokaryotic Cell and a Eukaryotic Cell
11. What is the difference between Mitosis (cell division) and Meiosis?
12. Determine the genotype and phenotype of the offspring from a simple cross.