Textbook sections: 5.1, 5.5, 5.6, 5.8, 5.9, 5.11, 6.1, 6.5, 6.7, 6.10

1. I can fill in the classification of matter flow chart.
2. I can identify chemical and physical properties of matter.
3. I can identify physical and chemical changes and I know the clues to a chemical change.
4. I know how to use the periodic table and read groups (families), periods, atomic mass, atomic number, ionic charge.
5. I am able to draw Bohr Diagrams for the first 20 elements
6. I can draw Lewis Dot diagrams.
7. I am able to identify, name or give the formula for:
   1. Ionic compounds
   2. Polyatomic compounds
   3. Molecular compounds
8. I am able to explain how element combine to form compounds using dot diagrams.
9. I know that the following elements are diatomic: H2, N2, O2, F2, Cl2, Br2, I2.
10. I can write word (skeleton) equations from descriptions such as “Hydrogen reacts with oxygen in the air to produce water.”
11. I am able to balance chemical equations.
12. I can identify the five types of reactions: single replacement, double replacement, decomposition, combustion, synthesis.

Key Terms

alkali metals

alkaline earth metals

Bohr-Rutherford diagram

chemical change

chemical family

chemistry

compound

covalent bond

electron

halogens

ion

ionic charge

ionic compound

matter

molecular compound

neutron

noble gases

physical change

physical property

polyatomic ion

product

pure substance

reactant

valence

valence shell

coefficient

combustion

decomposition reaction

Law of Conservation of Mass

single displacement reaction

skeleton equation

synthesis reaction

word equation

Review Questions

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1 (a-f), 2 (adfi), 3 (a-g), 4-7,12-16