

# 7<sup>th</sup> Grade Science Chemistry Vocabulary

The following scientific words are important to know as they relate to the process of Chemistry and matter that makes up all the chemical processes of our universe. You will need to know the word and it's definition/meaning. These are found on page 250-273 of the ScienceSaurus Textbook on my website. Final due date for this assignment is on 31 May, but I will check in class and let you know due dates for each set of vocabulary cards. Each set is worth 100 points. If you have pictures or diagrams on Quizlet, you will receive 10 extra points.

## 1. Set of Vocab Cards from page 250-252 PROPERTIES OF MATTER:

- a. Matter
- b. Volume
- c. Mass
- d. Properties
- e. Physical Properties
  - i. Density
  - ii. Ductility
  - iii. Malleability
  - iv. Boiling Point
  - v. Melting Point
  - vi. Electrical Conductivity
  - vii. Solubility
- f. Chemical Properties
- g. Physical Change
- h. Chemical Change

## 2. Set of Vocab Cards from page 253-254 STATES OF MATTER:

- a. Solid
- b. Liquid
- c. Gas
- d. Plasma
- e. States of Matter
  - i. Solid
  - ii. Liquid
  - iii. Gas

- iv. Know the three reasons why solids, liquids, and gases have their properties on page 253-254.
- f. Changing states of Matter:
  - i. Melting: from solid to liquid
    - 1. Melting
    - 2. Melting point
  - ii. Freezing: from liquid to solid
    - 1. Freezing
    - 2. Freezing point
  - iii. Vaporization: from liquid to gas
    - 1. Vaporization
    - 2. Boiling point
  - iv. Condensation: from gas to liquid
    - 1. Condensation
    - 2. Condensation point
- 3. Set of Vocab Cards from pages 255-258 ATOMS:
  - a. Atoms
    - i. Nucleus
    - ii. Protons
    - iii. Neutrons
    - iv. Isotopes
    - v. Electrons
    - vi. Electron clouds
    - vii. Energy levels
  - b. Electron Cloud Model
- 4. Set of Vocabulary Cards for pages 259-264 ELEMENTS, MOLECULES, AND COMPOUNDS:
  - a. Elements
  - b. Compounds
  - c. Molecules
  - d. Diatomic molecules
  - e. Oxygen Molecule
  - f. Hydrogen Molecule
  - g. Know three compounds – formulas, elements, properties of each element, and properties of the compound on page 262.
    - i. Sodium Chloride NaCl
    - ii. Sucrose C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>

- iii. Sodium Bicarbonate  $\text{NaHCO}_3$
  - h. Chemical Bonds
  - i. Ionic Bond
  - j. Covalent Bond
  - k. Ionic compounds
  - l. Covalent compounds
  - m. Valence
  - n. Acid
  - o. Ion
  - p. Base
  - q. pH scale
5. Set of Vocabulary Cards on page 265 PERIODIC TABLE:
- a. Periodic Table of the Elements
    - i. Chemical symbol
    - ii. Atomic mass
    - iii. Atomic number
    - iv. Period
    - v. Group or family
6. Set of Vocabulary Cards for pages 266-270 CHEMICAL FORMULAS, REACTIONS, AND EQUATIONS:
- a. Chemical formula
  - b. Coefficient
  - c. Electron-dot diagrams
  - d. Chemical reaction
    - i. Reactants
    - ii. Products
  - e. Chemical equations
  - f. Law of Conservation of Mass
7. Set of Vocabulary Cards for pages 271-272 MIXTURES, SOLUTIONS, AND SUSPENSIONS:
- a. Mixture
  - b. Solution
  - c. Suspension
  - d. Solute
  - e. Solvent
  - f. Solubility