

## 8<sup>th</sup> Grade Physical Science Vocabulary

### **Standard S8P1**

#### **Nature of Science, Measurement, & Scientific Inquiry**

Measurement  
Unit  
Metric  
Meter  
Liter  
Gram  
Length  
Volume  
Mass  
Force  
Temperature  
Rate  
Time  
Science inquiry  
Scientific method  
Problem  
Research  
Hypothesis  
Investigate  
Experiment  
Data  
Analyze  
Communicate  
Dependent variable  
Independent variable

#### **S8P1a. Atoms & Molecules**

Mass  
Subatomic particle  
Proton  
Neutron  
Electron  
Nucleus  
Atomic mass  
Atomic number  
Orbitals  
Electron configuration  
Valence electrons  
Electron cloud  
Energy level  
Chemical bond  
Molecule(s)  
Elements  
Pure substances  
Isotope

#### **S8P1b, d, g. Pure Substances (Elements, Compounds) & Mixtures**

Element  
Ion  
Ionic bond  
Compound  
Metallic bond  
Covalent bond  
Molecule  
Polar bond  
Chemical formula  
Balancing Equations  
Mixture  
Heterogeneous mixture  
Homogeneous mixture  
Solution  
Solute  
Solvent  
Precipitate  
Aqueous  
Solubility  
Saturated  
Concentration  
Physical property  
Chemical property  
Physical change  
Chemical change  
Reactivity  
Combustibility precipitate  
Conservation of energy  
Density  
Volume  
Dissolve  
Law of Conservation of Mass  
Chemical Reaction  
Products  
Reactants  
Chemical equation  
Endothermic (reaction)  
Exothermic (reaction)  
Activation energy  
Rate of reaction  
Inhibitor  
Catalyst  
Enzyme  
Acid  
Base

pH  
Indicator  
Neutralization  
Hydronium ion

#### **S8P1c. Movement of Particles/Phases of Matter**

Matter  
Solid state (phase)  
Liquid state (phase)  
Gas state (phase)  
Plasma state (phase)  
Viscosity  
Surface tension  
Thermal energy  
Temperature  
Melting  
Freezing  
Vaporization  
Condensation  
Sublimation  
Endothermic  
Exothermic  
Pressure  
Buoyant force  
Archimedes' principle  
Pascal's principle

#### **S8P1f. The Periodic Table**

Metal  
Non metals  
Metalloids  
Group  
Family  
Periods  
Alkali metal  
Alkali earth metals  
Transitional Metals  
Halogens  
Noble Gases  
Actinides  
Lanthanides