Vocabulary – Essential Standards 8P1.4

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| **Word** | **Definition** |
| 1. Atom | The basic particle from which all elements are made. |
| 1. Mass | A measure of how much matter is in an object. |
| 1. Molecule | A particle made of two or more atoms bonded together. |
| 1. Law of Conservation of Mass |  |
| 1. Chemical Equation | Uses chemical formulas and other symbols instead of words to summarize a reaction.  2 H2 + O2 → 2 H2O |
| 1. Closed System |  |
| 1. Open System |  |
| 1. Products |  |
| 1. Reactants |  |
| 1. Coefficient | A number in front of a chemical formula in an equation that indicates how many molecules or atoms of each reactant and product are involved in a reaction.  2 H2 + O2 → 2 H2O |
| 1. Subscript | A specific number of atoms of the element found in the substance.  2 H2 + O2 → 2 H2O |
| 1. Catalyst |  |

Need to know the following common substances.

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| water | H2O | Table Salt | NaCl |
| Carbon Dioxide | CO2 | Oxygen | O2 |
| Sucrose | C12H22O11 | Household Bleach | NaClO |
| Hydrochloric acid | HCl | Ammonia | NH3 |
| Baking Soda | NaHCO3 | Vinegar | HC2H3O2, 5% solution |