

Unit 5 – Chemical Reactions and Writing Chemical Equations – Learning Targets

- | | Beginning | Progressing | Mastered | |
|---|--------------------------|--------------------------|--------------------------|---|
| 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can describe the evidence that a chemical reaction has occurred. I can recognize that a chemical reaction results in the formation of a new substance(s) that have different chemical properties than the original materials. |
| 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can list five driving forces that make chemical reactions happen. |
| 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can define and/or identify the reactants and products in a chemical reaction. |
| 4 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can classify a chemical reaction as synthesis (combination), decomposition, single replacement, double replacement, or combustion, using the types of reactants and products as clues. |
| 5 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can balance a chemical reaction, if the formulas of the reactants and products are correctly written. |
| 6 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can predict the product(s) of a chemical reaction, based upon the types of reactants and the classification of the reaction. |
| 7 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can add phase notation to a chemical equation, if I have either observed the reaction myself or using clues in the description of the chemical reaction. |
| 8 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | I can correctly turn a spoken or written description of a chemical reaction into a balanced, phase-notated chemical equation. |