**Chemical Reactions “Mini-Research Project”**

The purpose of this project is two-fold. First, it will help you learn more about a type of chemical reaction. Second, it will show how that reaction is used in the real world.

You will be researching a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reaction.

***Your 8.5x11” poster should include:***

* The types of reaction: synthesis, decomposition, single replacement, double replacement, combustion (Put it at the top as a title)
* One example of the reaction—my reaction is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + The names and formulas of the reactants
  + The names and formulas of the products
  + A diagram showing how the products become the reactants (microscope eyes!)
* The energy released or absorbed by the reaction. Does it produce any type of energy? Heat? Light? Sound? Is the reaction endothermic or exothermic? *(some may be neither!)*
* Is this chemical reaction useful, harmful, or benign? What is it used for or when is it seen? For example, rusting metal is generally a negative event. An instant ice pack is a desired outcome.
* Pictures/Color/etc! ☺

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Student Creator: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ / 12

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| --- | --- | --- | --- |
|  | **2** | **1** | **0** |
| **Reaction** | Poster includes type of reaction & full balanced equation. Reaction is the correct type. | Either reaction is unbalanced or is the wrong type. | Reaction is not given. Type is not specified. |
| **Reactants** | Poster includes correct names and formulas | Poster includes names or formulas, but not both. | Poster is missing reactants/reactants are incorrect. |
| **Products** | Poster includes correct names and formulas | Poster includes names or formulas, but not both. | Poster is missing products/products are incorrect. |
| **Diagram** | Poster includes diagram showing how molecules are rearranged. | Diagram is there but does not show the molecules present, or is incomplete. | Poster doesn’t include a diagram showing how molecules are rearranged. |
| **Use** | Poster discusses the use/outcome of the reaction example. | Information is incomplete or inaccurate. | Poster does not discuss the use/outcome of the reaction. |
| **Presentation** | Poster has color & pictures. It is neat & well put together. It is visually appealing. | Poster is missing either pictures of color, or is messy. | Poster is sloppy and missing several elements. |

**\*\*Staple this rubric to the back of your completed poster!**

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