

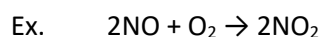
Cartoon Chemistry and Reaction Types

Directions:

1. Choose a **theme** for your project (ie. food, sports, clothing, entertainment ...)
 2. Create an **illustration/cartoon example** for **each** of the 4 main types of reactions.
 - i. Synthesis reaction
 - ii. Decomposition reaction
 - iii. Single replacement reaction
 - iv. Double-replacement reaction
 - The examples should **NOT** be real chemical reactions but represent the major **characteristics** of the types of reactions.
 - Include labels for all reactants & products
 - Provide an **actual example of a balanced chemical reaction** for **each type** of reaction. These must be different from the ones presented in the lesson video.
3. Provide an specific industrial/“real” world example for both **complete & incomplete combustion**.
 - Include balanced equations & labels of molecules
 - Indicate **where** this reaction takes place and what it is used for
 - You may **not** use cellular respiration or the combustion of methane

EXAMPLE:

Synthesis Reaction



Marking Rubric

Type of Reaction	Characteristics of Reaction		Specific Example
Synthesis	1		1
Decomposition	1		1
Single Displacement	1		1
Double Displacement	1		1
	Specific Example		Explanation
Combustion	1		1 2
- complete	1		1 2
- incomplete	1		1 2
Labelled reactants & products	1 (few)	2 (most)	3 (all)
Creativity of Analogies	1 (repetitive)	2 (straightforward).	3 (complex/unique)
Total			/20