











Types of Chemical Reactions

Acid-Base Reaction

Anabolic Reaction

Catabolic Reaction

Combustion Reaction

Condensation Reaction

Decomposition Reaction

Double Replacement

Endothermic Reaction

Exothermic Reaction

Hydrolytic Reaction

Single Replacement

Synthesis Reaction

Step 1: Match the diagram to the definition.

Step 2: Create a definition of each type of chemical reaction.

Step 3: Some of these reactions are similar in their process and products. Group like reactions together. Get your teacher to approve your choices.

Step 4: Write down which reaction types are similar on your paper.

Definitions of Chemical Reactions

Acid-Base Reaction

Anabolic Reaction

Catabolic Reaction

Combustion
Reaction

Condensation
Reaction

Decomposition
Reaction

Double Replacement	
Endothermic Reaction	
Exothermic Reaction	
Hydrolytic Reaction	
Single Replacement	
Synthesis Reaction	

Group Like Chemical Reactions into Columns

Analysis Questions:

Acid-Base Reaction:

What two products are always produced in an acid-base reaction?

Anabolic Reaction:

Identify two anabolic processes that happen in the body:

- 1.
- 2.

What is the purpose of an anabolic reaction?

Catabolic Reaction:

Identify two catabolic processes that happen in the body:

- 1.
- 2.

What is the purpose of catabolic reactions?

Combustion Reaction:

What cellular process in the body is combustion reaction?

In what way is a combustion reaction like a catabolic reaction?

In what way is a combustion reaction different than a catabolic reaction?

Condensation Reaction:

What is the role of water in a condensation reaction?

Why do you think it's called a condensation reaction?

Decomposition Reaction:

What is the key to looking at a reaction to determine it's a decomposition reaction?

Double Replacement:

What is the key to looking at a reaction to determine it's a double replacement reaction?

Endothermic Reaction:

How can you determine this type of reaction by the graph?

Exothermic Reaction:

How can you determine this type of reaction by the graph?

Hydrolytic Reaction:

What is the role of water in a hydrolytic reaction?

Why do you think it's called a hydrolytic reaction?

Single Replacement:

What is the key to looking at a reaction to determine it's a double replacement reaction?

Synthesis Reaction:

What is the key to looking at a reaction to determine it's a synthesis reaction?