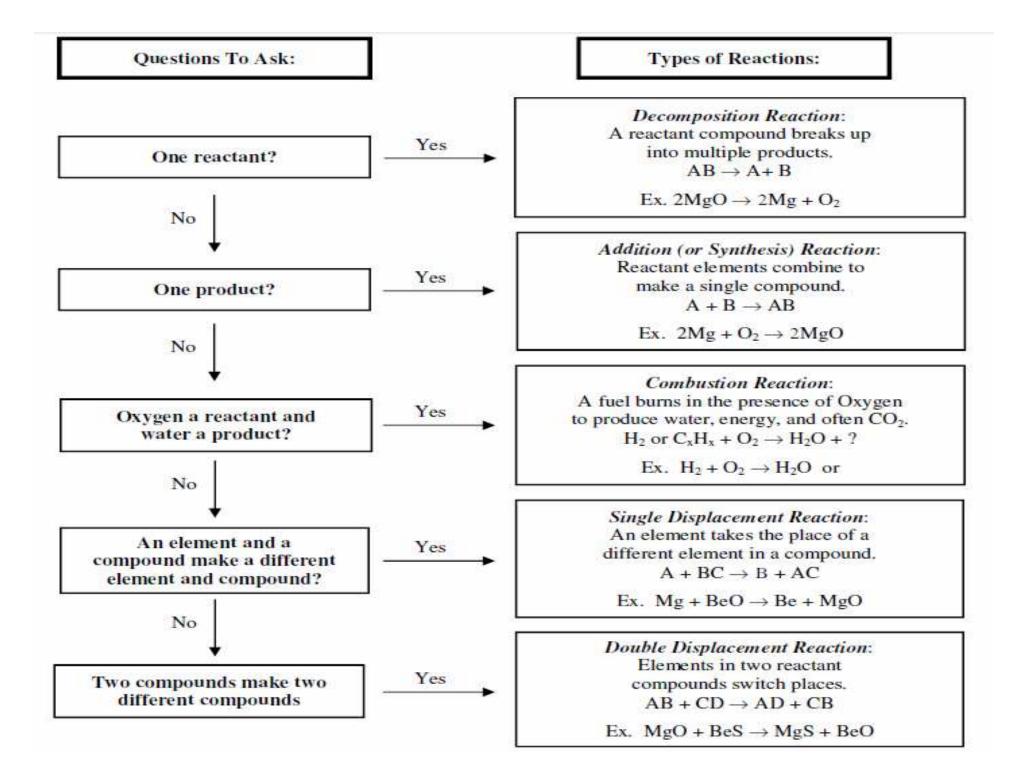
Classifying Chemical Reactions

Grade Homework
Types of Reactions
Homework
Grade Homework

Balancing Equations Practice

Grade Homework



Decomposition Reaction:

A reactant compound breaks up into multiple products.

$$AB \rightarrow A+B$$

Ex.
$$2MgO \rightarrow 2Mg + O_2$$

Is there only one Reactant?

Addition (or Synthesis) Reaction:

Reactant elements combine to make a single compound.

$$A + B \rightarrow AB$$

Ex.
$$2Mg + O_2 \rightarrow 2MgO$$

Is there only one product?

Combustion Reaction:

A fuel burns in the presence of Oxygen to produce water, energy, and often CO₂.

$$H_2$$
 or $C_xH_x + O_2 \rightarrow H_2O + ?$

Ex.
$$H_2 + O_2 \rightarrow H_2O$$
 or

Is oxygen a reactant and water a product?

Single Displacement Reaction:

An element takes the place of a different element in a compound.

$$A + BC \rightarrow B + AC$$

Ex.
$$Mg + BeO \rightarrow Be + MgO$$

Does an element and a compound make a different element and compound?

Double Displacement Reaction:

Elements in two reactant compounds switch places.

$$AB + CD \rightarrow AD + CB$$

Ex.
$$MgO + BeS \rightarrow MgS + BeO$$

Do two compounds make two different compounds?

We will grade this homework in 30 minutes!!!

Homework