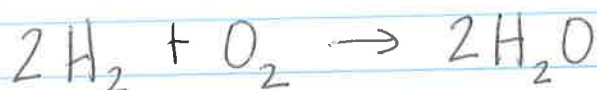


Law of Conservation of Mass

In a closed system, the mass of the reactants equals the mass of the products.

Reactants are the starting substances.
(what goes in)

Products are the new substances that are formed. (what comes out)



$$\text{H} = 4$$

$$\text{H} = 4$$

$$=$$

$$\text{O} = 2$$

$$\text{O} = 2$$

$$\rightarrow$$

A chemical reaction is the process of breaking chemical bonds and forming new bonds to create new substances.

Evidence of a Chemical Change

- 1) change in color or smell
- 2) precipitate formed (solid)
- 3) gas formation - bubbles formed
- 4) heat is released or absorbed
(change in energy) - could also be
release of light or sound