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Chemical Equations Notes

A **chemical reaction** is when atoms change, rearrange, break or form new bonds with other atoms.
(One or more chemicals change how their atoms are bonded together to make one or more new chemicals.)

A **chemical equation** is a written description of what happened in a chemical reaction

Chemical **reactions** are like the **action!** of a news event

Chemical **equations** are like the **NEWS REPORT** that tells you what happened in the news event.

Chemical equations use **chemical symbols** in **chemical formulas** so that any scientist anywhere can understand what happened in that particular **chemical reaction**.

A chemical equation starts with the **reactants** then has a **yield sign** and finally the **products**.



Reactants are the substances that will go through the reaction. There can be 1 or more.

The **yield sign** shows where the reaction happens and says “went through a reaction to become...”

Products are the substances that are made during the reaction. There can be 1 or more.



- Products that have an up arrow \uparrow are being released as gases.



- Products that have a down arrow \downarrow are forming as precipitates.

