

CHEMICAL EQUATIONS

A **chemical equation** is a simple and easy way to describe a chemical reaction. **Chemical equations use chemical formulas and other symbols instead of words to summarize a reaction.** A chemical equation tells you the substances you start with in a reaction and the substances that are formed in the end. The chemical equation for the formation of water is shown below.



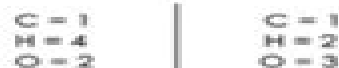
All chemical equations share a common structure. The substances you have at the beginning are called the **reactants**. The new substances formed at the end of the reaction are called the **products**. The formulas for the reactants are written on the left side of the equation, followed by an **arrow** ($\rightarrow$) which means "turns into" or "yields". The formulas for the products are written on the right side of the equation. When there are two or more reactants or products, they are separated by plus signs.

The **law of conservation of mass** was first demonstrated by a scientist named Antoine Lavoisier in the late 1700s. The law of conservation of mass states that in a chemical reaction, **the total mass of the reactants must equal the total mass of the products**. In an **open system**, matter can enter or escape from the surroundings. For example, a match burning in the open air is an open system. You cannot measure the mass of all the reactants and products in an open system. In a **closed system**, matter cannot enter or escape into the surroundings. A match burning inside a sealed glass chamber is an example of a closed system. A closed system allows you to measure the mass of all the reactants and products in a reaction.

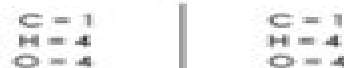
Because of the law of conservation of mass, a chemical equation must be **balanced**. An equation is balanced when the total number of atoms of the reactants equals the total number of atoms in the products. To balance a chemical reaction, you may have to use coefficients. A **coefficient** is a number placed in front of a chemical formula in an equation. The coefficient tells you how many molecules of a reactant or product take part in a reaction.



unbalanced equation



balanced equation



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web funktionsprinzip der hydraulikpressen im detail der pumpenkolben der in den hydraulikpressen zum einsatz kommt wird schließlich durch einen hebel gehoben anschließend kann das wasser das sich in dem behälter befindet durch das sieb dringen dadurch wird das ventil angehoben und erreicht den bereich der unter dem kolben zu

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web hydraulikpressen werden als stanzmaschinen umformpressen furnierpressen usw in der produktion oft auch in der serienfertigung eingesetzt jede presse wird dabei auf ihr einsatzgebiet optimiert joos fertigt seit 80 jahren hydraulische pressen

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physikunterricht dazu beitragen soll dass die schüler zu mündigen und gebildeten menschen erzogen werden

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web die hydraulische presse ist ein bearbeitungswerkzeug welches eingesetzt wird wenn sehr große kräfte auf ein werkstück eingebracht werden sollen sie kann hervorragende umformarbeiten leisten ihr nachteil ist dass sie sehr langsam arbeitet die hydraulische presse wird daher vorwiegend zur bearbeitung von einzelstücken verwendet

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web hydraulische pressen auch bekannt als hydraulik pressen verfügen über hohe presskräfte bei relativ geringer pressgeschwindigkeit also einer geringen geschwindigkeit des presskolbens Über den gesamten pressweg gewährleisten hydraulische pressen eine gleichmäßige kraftverteilung was ein hohes maß an präzision bei sämtlichen press

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web um die energie und ressourceneffizienz von hydraulischen pressen zu verbessern setzen wir auf bauraumoptimierte hydrauliktanks sowie bedarfsgerechter energiebereitstellung profitieren sie von unserem umfassenden produktsortiment von der komponente bis zum system wir begleiten sie auf dem weg in eine nachhaltigere zukunft

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