

A chemical reaction is a transformation of a chemical reaction in which the number of atoms of each element is conserved.

A coefficient represents the number of atoms of a particular element in a chemical reaction. A coefficient is placed directly in front of a chemical formula.

A subscript is placed after the element symbol to indicate the number of atoms of that element in a chemical formula.

Why is it important to balance chemical equations?

Chemical reactions are balanced to show that the number of atoms of each element is the same on both sides of the equation.

What does the law of conservation of mass state?

The law of conservation of mass states that the total mass of the reactants is equal to the total mass of the products.

### Week 8, Day 2

The number of protons in an atom cannot change (it is fixed) but a different number of neutrons can change.

The most stable atomic configuration has a nucleus with a balanced number of protons and neutrons.

How does a positive ion form from a neutral atom? What is another name for a positive ion?

When an atom loses one or more electrons, it has more protons than electrons and is no longer neutral. This atom has a positive charge and is called a positive ion.

How does a negative ion form from a neutral atom? What is another name for a negative ion?

When an atom gains one or more electrons, it has more electrons than protons and is no longer neutral. This atom has a negative charge and is called a negative ion.



Atoms in Group 1A have 1 electron in their outer shell and Group 2A atoms have 2 electrons in their outer shell. To become more stable (like the noble gases), the outermost electrons are easily given up. These elements are called Group 1A and Group 2A elements.



Atoms are formed by taking the first part of the element name and adding the suffix -ide. For example, sodium chloride, NaCl, is called a sodium ion.



When sodium and chlorine atoms react, the sodium atom gives up the outermost electron, becoming a sodium ion (positively charged ion), and the chlorine atom gains the electron, becoming a chloride ion (negatively charged ion).

The positively charged sodium ion and the negatively charged chloride ion are attracted to each other. This bond forms because the oppositely charged ions, holding the two ions together.

# Physical Science Exploring Space Notetaking Guide

## Answer

**EW Minium**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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