

9th Grade Physical Science Chemical Bonding Study Guide

Chemical Bond Descriptions

Ionic Bond

Bond between a metal and nonmetal
Transfers electrons
Has a rigid crystal structure

Covalent Bond

Shares electrons equally

Metallic Bond

Bond between a metal and a metal
That forms metal alloys
Allows electrons to flow freely
Conducts electricity at all times

Polar Covalent Bond

Unequal sharing of electrons
Has a slightly positive charge on one end

A chemical formula has symbols and subscripts that tell the type of ratio of atoms in a compound.

The chemical formula for glucose is $C_{12}H_{22}O_{11}$. How many elements are in the compound? 3: C is an element, H is an element, and O is an element.

The chemical formula for glucose is $C_{12}H_{22}O_{11}$. How many atoms are in the compound? 45: You add the number of atoms. $12+22+11=45$

The chemical formula for glucose is $C_{12}H_{22}O_{11}$. What is the ratio of atoms in the compound? 12:22:11

The properties of a compound depend on the elements and how they are arranged.

The interaction of electrons between elements determines the kind of bond that is formed.

The properties of elements in compounds are usually different from the properties of the elements alone.

The smell of a compound is usually determined by the shape of the molecules that make them.

The chemical formula for a compound having one barium ion and two chlorine ions is $BaCl_2$.

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L Reisser



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