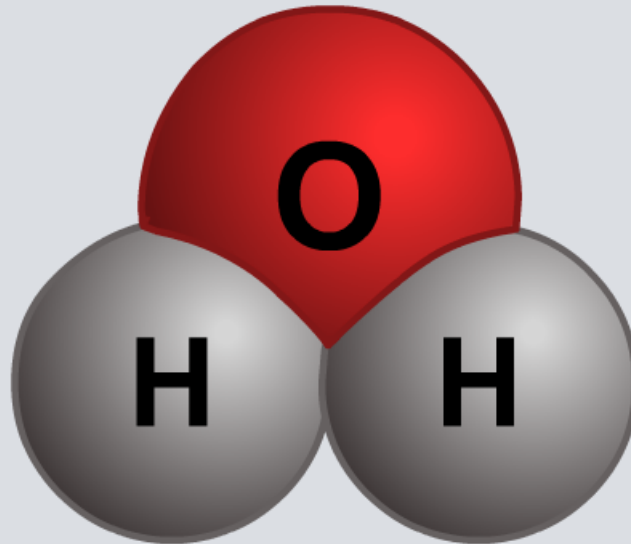


Compounds

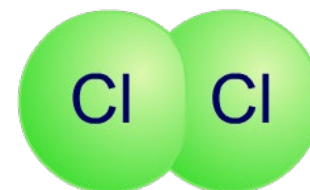


What are bonds?

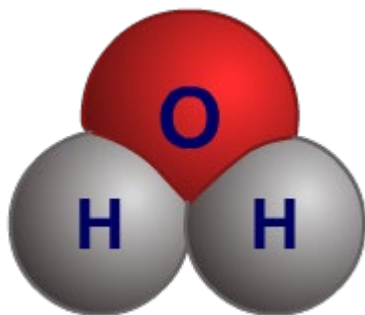
Elements are the simplest substances that exist on Earth.

Each element is made up of just one type of atom, usually joined to other atoms of the same element by **bonds**.

This forms molecules such as chlorine (Cl_2).



Compounds are formed when different elements chemically react and form bonds with each other.



Some compounds, like water (H_2O), have small, simple structures with just a few atoms bonded together.

Others compounds, like DNA, have large, complex structures containing thousands or even millions of bonded atoms.

Composition of compounds

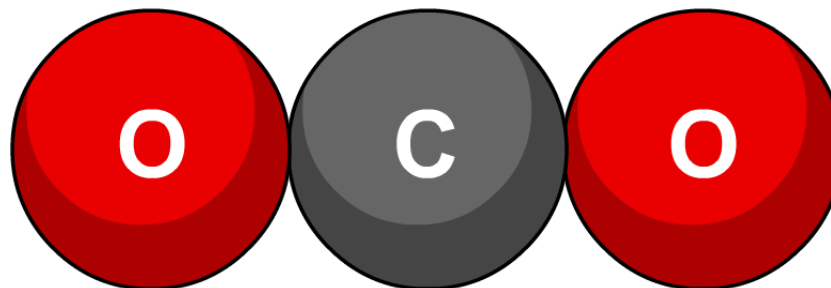
A compound contains atoms from different elements that are chemically joined together.

A compound always contains a particular amount of each element. It has a fixed composition.

Compound names can get quite long and complicated, so the symbols of the elements are used as a shorthand.

The symbols of the elements in a compound are combined to give the **formula** of the compound.

What is the formula of carbon dioxide?



Are these substances elements or compounds?

element

compound

oxygen (O_2)



solve

