

11–14 years

Elements, compounds and mixtures

Unscrambling definitions



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Unscrambled definitions

An **element** is a pure substance made of only one type of atom.

A **compound** is a pure substance made of two or more different elements whose atoms are joined by chemical bonds; the atoms are in a fixed ratio.

A **mixture** is two or more substances added together in any proportion; they are not chemically bonded, so they keep their own properties.

A **physical property** describes something about the behaviour of a substance that does not involve a chemical reaction, such as its melting point.

Unscrambled definitions continued

A **chemical property** describes something about how a substance reacts, such as its reactivity with water.

An **atom** is the smallest possible particle of an element; atoms are made up of protons, neutrons and electrons.

A **molecule** is two or more atoms connected by chemical bonds.

Connection completion

Choose the letter from the table below that contains the correct row of connective words to complete these sentences:

_____ both atoms of a hydrogen molecule are the same type of atom, it is called an element. _____, when an atom of hydrogen and an atom of chlorine are chemically joined together, this is called a compound. _____, if hydrogen molecules and chlorine molecules are added together in any proportion, this is called a mixture.

A	Since	However	Additionally
B	Although	Thus	Despite this
C	Nevertheless	So	Hence
D	As	Although	As a result

Connection completion: completed sentences

Since both atoms of a hydrogen molecule are the same type of atom, it is called an element. **However**, when an atom of hydrogen and an atom of chlorine are chemically joined together, this is called a compound. **Additionally**, if hydrogen molecules and chlorine molecules are added together in any proportion, this is called a mixture.