

# Ground Level Questions



★ Fill in the blanks using the words below. Words can be used twice.

Atom(s) compound mixture element salt

1. The smallest unit of an element that still has the properties of that element is called an \_\_\_\_\_.
2. A \_\_\_\_\_ is made up of two or more elements that are chemically bonded together.
3. In a \_\_\_\_\_, the substances are not chemically combined and can often be separated by physical means.
4. Water ( $H_2O$ ) is an example of a \_\_\_\_\_ because it contains hydrogen and oxygen chemically joined.

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5. A \_\_\_\_\_ contains only one type of atom.
6. The chemical formula NaCl represents the compound known as \_\_\_\_\_.
7. Air is an example of a \_\_\_\_\_ because it contains different gases that are not chemically bonded.
8. A molecule of oxygen ( $O_2$ ) is made of two oxygen \_\_\_\_\_ bonded together.



# Level Up Questions



★★ Categorize the substances below as element, compound, or mixtures

Oxygen gas	Table salt	Air	Carbon	Water
Carbon dioxide	Brass	Hydrogen gas	Sugar	Salad

<b>Elements</b>	<b>Compounds</b>	<b>Mixtures</b>

# Booster Level



★★★ You are given some substance. You don't know if it's a compound or a mixture.

Design a simple experiment or set of steps to help you identify what it is.



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