



# Properties of Matter

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Fill in the Blank

Write the missing word or number on each line.

1. A pure substance made of only one type of atom is called an \_\_\_\_\_.
2. Water is a \_\_\_\_\_ because it is made of hydrogen and oxygen chemically combined.
3. A salad is a \_\_\_\_\_ because its parts can be physically separated.
4. Gold and oxygen are both examples of \_\_\_\_\_ found on the periodic table.
5. Table salt has the chemical formula NaCl, which means it is a \_\_\_\_\_ of sodium and chlorine.
6. A solution is a type of \_\_\_\_\_ mixture that looks the same throughout.
7. Trail mix is a \_\_\_\_\_ mixture because you can see the different pieces.
8. In a compound, the elements are combined in a fixed \_\_\_\_\_ that does not change.
9. Unlike a compound, a mixture can be separated using \_\_\_\_\_ methods like filtering.

## Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Oxygen	→ _____	Homogeneous mixture — salt dissolved evenly throughout water
Saltwater	→ _____	Heterogeneous mixture — different pieces can be seen and separated
Carbon dioxide		Element — a pure substance made of only one type of atom

**Part A: Fill in the Blank**

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Write the missing word or number on each line.

1. A pure substance made of only one type of atom is called an element.
2. Water is a compound because it is made of hydrogen and oxygen chemically combined.
3. A salad is a mixture because its parts can be physically separated.
4. Gold and oxygen are both examples of elements found on the periodic table.
5. Table salt has the chemical formula NaCl, which means it is a compound of sodium and chlorine.
6. A solution is a type of homogeneous mixture that looks the same throughout.
7. Trail mix is a heterogeneous mixture because you can see the different pieces.
8. In a compound, the elements are combined in a fixed ratio that does not change.
9. Unlike a compound, a mixture can be separated using physical methods like filtering.

**Part B: Matching**

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Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Oxygen	→ <u>Element — a pure substance made of only one type of atom</u>	Homogeneous mixture — salt dissolved evenly throughout water
Saltwater	→ <u>Homogeneous mixture — salt dissolved evenly throughout water</u>	Heterogeneous mixture — different pieces can be seen and separated