Name: Date: Score: / 8

Mix and Make New: Learn and Practice

Does mixing make a new substance?

Read each question. Circle the best answer.

💡 Mixing Substances

- Sometimes mixing just combines things, like salt and pepper.
- Sometimes mixing makes a new substance with new properties.
- Signs of a new substance include gas bubbles, a color change, heat or light.
- vinegar and baking soda: bubbles: a new substance formed

1 🫧 Which is a sign that a new substance may have formed?

A. Nothing happens B. It gets wet

C. It stays the same D. Gas bubbles appear

2 Which mix makes NO new substance?

A. Vinegar and baking soda B. Cooking an egg

C. Sand and water D. Burning wood

3 🧂 Mixing salt and pepper makes what?

A. A metal B. A gas

C. A mixture with no new substance

D. A new substance

4 Iron left in the rain turns orange and flaky. What formed?

A. Sand B. More iron C. Paint

D. Rust, a new substance

5 🍋 Milk and lemon juice are mixed and lumps form. What does this show?

A. A new substance may have formed

B. Nothing happened C. The lemon melted

D. The milk froze

6 Baking soda and vinegar fizz. What are the bubbles?

A. Light B. Water C. A gas D. Sand

7 🍎 Which is an example of a color change?

A. A sliced apple turning brown B. Cutting hair

C. Folding paper D. Pouring water

8 🎂 Baking turns cake batter into what?

A. A new substance, cake B. The same batter

C. Raw eggs D. Plain flour

✏️ Explain it! Write two facts you learned about mix and make new.

ANSWER KEY

Mix and Make New: Learn and Practice (answers)

Does mixing make a new substance?

Read each question. Circle the best answer.

1 🫧 Which is a sign that a new substance may have formed?

A. Nothing happens B. It gets wet

C. It stays the same **D. Gas bubbles appear**

Bubbles of gas that were not there before are a clue that something new was made.

2 Which mix makes NO new substance?

A. Vinegar and baking soda B. Cooking an egg

C. Sand and water D. Burning wood

Sand just sits in the water and can be filtered out. The others all make new substances.

3 🧂 Mixing salt and pepper makes what?

A. A metal B. A gas

C. A mixture with no new substance

D. A new substance

You could pick the pepper back out of the salt. Nothing new was made, so it is a mixture.

4 Iron left in the rain turns orange and flaky. What formed?

A. Sand B. More iron C. Paint

D. Rust, a new substance

Iron joins with oxygen and water to make rust, which has very different properties.

5 🍋 Milk and lemon juice are mixed and lumps form. What does this show?

A. A new substance may have formed

B. Nothing happened C. The lemon melted

D. The milk froze

Solid lumps appearing from two liquids is a sign that a new substance may have formed.

6 Baking soda and vinegar fizz. What are the bubbles?

A. Light B. Water **C. A gas** D. Sand

The fizzing makes a new gas called carbon dioxide.

7 🍎 Which is an example of a color change?

A. A sliced apple turning brown B. Cutting hair

C. Folding paper D. Pouring water

The apple turns brown as it reacts with the air, which forms new substances.

8 🎂 Baking turns cake batter into what?

A. A new substance, cake B. The same batter

C. Raw eggs D. Plain flour

Heat changes the batter into something new. You cannot turn a cake back into batter!