

# BrainPOP<sup>®</sup> COMPOUNDS AND MIXTURES

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

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

Class: \_\_\_\_\_

## 1 How is a compound different from a mixture?

- A Mixtures are created through physical changes; compounds are created through chemical reactions
- B Compounds are created through physical changes; mixtures are created through chemical reactions
- C Mixtures, on average, are heavier than compounds
- D Compounds, on average, are heavier than mixtures

## 2 What occurs during a chemical reaction?

- A Atoms of two or more elements are destroyed
- B Atoms of two or more elements oppose one another
- C Atoms of two or more elements bond together
- D Atoms of two or more elements trade protons

## 3 What is true of a mixture?

- A It is always thicker than the two chemicals that go into it
- B It retains the properties of the substances that make it up
- C It can never be separated into its constituent substances
- D It is produced through chemical reactions

## 4 Based on the information from the movie, what can you conclude about the most common chemical compound on earth?

- A It's oxygen
- B It's hydrogen gas
- C It's carbon dioxide
- D It's water

## 5 What is true of a compound?

- A It does not always retain the properties of the substances that make it up
- B It must have water as one of its components
- C It requires heat energy to make
- D It requires electrical energy to make

## 6 Which of the following two ingredients can combine to make a compound?

- A Salt and water
- B Hydrogen and oxygen
- C Eggs and butter
- D Sugar and water

## 7 Which of the following is a heterogeneous mixture?

- A 
- B 
- C 
- D 

## 8 Which of the following is an example of a chemical element?

- A Salt
- B Water
- C Sugar
- D Sodium

## 9 Where can you find a common homogenous mixture?

- A 
- B 
- C 
- D 

## 10 The elements of a heterogeneous mixture can be distinguished visually. What does this mean?

- A That two separate elements have been mixed together
- B That the components of the mixture cannot be separated
- C That you can see the different component parts of the mixture
- D That heterogeneous mixtures combine solids and liquids