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COMPOUNDS AND MIXTURES

1 How is a compound different from a mixture?

- 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
- Compounds, on average, are heavier than mixtures

2 What occurs during a chemical reaction?

- Þ 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
- Atoms of two or more elements trade protons

3 What is true of a mixture?

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

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

- It's oxygen
- lt's hydrogen gas
- It's carbon dioxide
- It's water

What is true of a compound?

- It does not always retain the properties of the substances that make it up
- It must have water as one of its components

B

- It requires heat energy to make
- It requires electrical energy to make

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

- Salt and water
- œ Hydrogen and oxygen
- Eggs and butter
- 0 Sugar and water

7 Which of the following is a heterogeneous mixture?

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

₩

Water

- Sugar
- Sodium
- 9 Where can you find a common homogenous mixture?

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

5

- That two separate elements have been mixed together
- That the components of the mixture cannot be separated

œ

- That you can see the different component parts of the mixture
- That heterogeneous mixtures combine solids and liquids

1 If someone described a coin as "lustrous," what would he mean?

- It was durable

It was tarnished

- It was hard
- It was shiny
- What can you infer from the fact that metals are good conductors of electricity?
- Electrical appliances made of metal are dangerous

Most electrical wiring is made of metal

- All non-metallic objects, like water and the human body, are poor electrical conductors
- Metals also make good insulators

3 Which of the following objects is the most malleable?

- If someone said a particular metal had "hardness," what would she mean?
- It can't be bent easily
- It can't be stretched out easily
- It can't be scratched easily
- If you bend it, it won't go back to its original shape

How is mercury different from every other metal on the periodic table?

- It's liquid at room temperature
- B It doesn't conduct electricity
- It has no luster
- It is totally inelastic

In METALS

- 6 Elements with positive valences usually _____ electrons.
- Donate
- œ Accept
- C Have no
- Create
- 7 Which of the following is an example of oxidation?

8 If you needed native metals, which tool would be most useful?

- A Geiger counter

B A shovel

- C A furnace
- D A large magnet
- 9 How are ores different from native metals?
- Ores are usually found underground; native metals are usually found aboveground
- Ores contain mixtures of minerals, native metals are often pure

Ores tend to be more valuable than native metals

Ores are usually found in deposits, native metals are usually found in veins

- 10 What is the best synonym for "alloy?"
- Nonmetal
- œ Mineral
- Blend
- Stone