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Compounds Elements And Mixtures Quiz Answer Key PDF

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What type of bond is primarily found in water (H2O)?

A. Ionic

B. Covalent ✓

C. Metallic

D. Hydrogen

How can you distinguish between a physical change and a chemical change? Provide an example of each.

A physical change is a change that affects one or more physical properties of a substance without altering its chemical composition, such as melting ice. A chemical change involves a transformation that results in the formation of new chemical substances, such as iron rust forming when iron reacts with oxygen.

Why is water considered a compound and not a mixture?

Water is a compound because it consists of chemically bonded hydrogen and oxygen atoms, forming a substance with unique properties.

Which of the following are characteristics of elements? (Select all that apply)

A. Made of one type of atom ✓

B. Can be broken down into simpler substances

C. Found on the periodic table ✓

D. Have fixed ratios of atoms

Which properties are considered chemical properties? (Select all that apply)

A. Flammability ✓

B. Boiling point

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C. Reactivity ✓

D. Density

Which method would you use to separate a mixture of sand and salt?

A. Filtration ✓

B. Distillation

C. Magnetism

D. Evaporation

Which of the following is a homogeneous mixture?

A. Salad

B. Sand in water

C. Air ✓

D. Oil and water

Which of the following are methods to separate mixtures? (Select all that apply)

A. Filtration ✓

B. Combustions

C. Distillation ✓

D. Evaporation ✓

Which of the following are examples of compounds? (Select all that apply)

A. H2O ✓

B. NaCl ✓

C. O2

D. CO2 ✓

Which of the following is a characteristic of a compound?

A. It has a variable composition.

B. It can be separated by physical means.

C. It has a fixed ratio of elements. ✓

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D. It consists of only one type of atom.

What is the significance of the periodic table in understanding elements?

The periodic table is significant because it systematically arranges elements according to their atomic number and properties, facilitating the understanding of their relationships and behaviors.

Explain the difference between a compound and a mixture.

A compound is a chemical combination of two or more elements, whereas a mixture is a physical combination of two or more substances.

Which of the following substances can be broken down into simpler substances by chemical means?

A. Oxygen

B. Gold

C. Water ✓

D. Helium

Which of the following are true about mixtures? (Select all that apply)

A. Components retain their individual properties ✓

B. Can be separated by chemical means

C. Have variable compositions ✓

D. Are pure substances

Describe a real-world example of a homogeneous mixture and explain why it fits this category.

Saltwater is a homogeneous mixture because the salt is evenly distributed within the water, creating a consistent and uniform solution.

Discuss the importance of understanding the properties of elements, compounds, and mixtures in the field of environmental science.

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The importance of understanding the properties of elements, compounds, and mixtures in environmental science lies in its role in pollution assessment, resource management, and sustainability efforts.

Which of the following is NOT a physical property?

A. Melting point

B. Density

C. Reactivity ✓

D. Color

What is the smallest unit of an element that retains its chemical properties?

A. Molecule

B. Atom ✓

C. Compound

D. Mixture

Which of the following is an element?

A. Water

B. Carbon ✓

C. Salt

D. Sugar

Which of the following mixtures are heterogeneous? (Select all that apply)

A. Oil and water ✓

B. Air

C. Granite ✓

D. Saltwater

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