

Unit 1 Review (Practice Quiz)

Name: Key Period: _____ Date: _____

CLASSIFY each of the following as an (E) for element, (C) for compound, (HO) homogeneous mixture, or a (HE) for heterogeneous mixture. It can only be one

C NaCl
HE salad
HO steel
C table salt

C water
E silver
HO brass
HE sand in water

- A Which of the following is a heterogeneous mixture?
 a) oil and water b) steel c) aluminum d) air
- B Water can be broken down into hydrogen and oxygen: thus H_2O is a(n)
 a) element b) compound c) homogeneous mixture d) solution
- B Which one of the following is a chemical property?
 a) It boils at $36^\circ C$ b) It burns in air c) it is less dense than water d) It has a strong odor
- A Which is a chemical change?
 a) frying an egg b) grinding coffee c) ice freezing d) laundry drying
- B Which of the following is **NOT** a physical property.
 a) The boiling point of a certain alcohol is $78^\circ C$ c) Anthracite coal is black and shiny.
 b) Gold has no stable oxide. d) A metal wire conducts electricity.
- A Which of these is a chemical property?
 a) Water boils at $100^\circ C$ c) Argon is very non reactive
 b) Lithium is a soft, shiny metal d) Metals have relatively low specific heats
- D Which of the following is an element?
 a) sugar b) salt c) air d) oxygen
- D Which of the following is a heterogeneous mixture?
 a) coffee b) brass c) salt water d) Italian dressing
- A Which of the following is a compound?
 a) KCl b) K c) saltwater d) trailmix
- B Pure water can be broken down into hydrogen gas and oxygen gas by hydrolysis: thus water is a(n)
 a) element b) compound c) heterogeneous mixture d) solution
- A Which is a heterogeneous mixture?
 a) pizza b) soda c) salt water d) none of these are

12. B Which one of the following is a chemical property?
a) It boils at 100°C b) It's flammable c) it is less dense than water d) It has a strong smell
13. A Which is a chemical change?
a) tooth decay b) grinding coffee c) ice freezing d) laundry drying
14. B Which of the following is NOT a physical property.
a) The boiling point of a certain alcohol is 78°C c) Anthracite coal is black and shiny.
b) Sugar ferments(changes) into alcohol. d) A metal wire conducts electricity.
15. B The new properties observed during a change of state are not signs of a chemical change because
a) the new properties are temporary. c) the color of the substance has changed.
b) the chemical identity of the substance has not been altered. d) a gas is not produced.
16. C Which of the following involves a chemical change?
a) boiling water c) cooking an egg
b) melting ice d) none of the above
17. C Which of the following involves no chemical change?
a) rusting iron c) boiling water
b) digesting food d) they all involve a chemical change
18. C Which of these is a chemical property?
a) ice melts at 0° C c) Neon is very non reactive
b) Sodium is a soft, shiny metal d) Water has a high specific heat
19. A Which of these is a quantitative observation?
a) ice melts at 0° C c) Neon is very non reactive
b) Sodium is a soft, shiny metal d) Water has a high specific heat
20. B Which of these is a qualitative observation?
a) ice melts at 0° C c) the molar mass of water is 18g/mole
b) water boils at 100° C d) Water has a high specific heat