



Assessment

Chemistry: Lesson 01



Which of the following is a false statement?

- a) Molecules are formed by two or more atoms bonded together.
- b) Atoms of different elements have different properties.
- c) The smallest particle of a compound is an atom.**
- d) Matter occupies a certain amount of space and also has a definite mass.
- e) Matter can exist as both atoms and molecules.

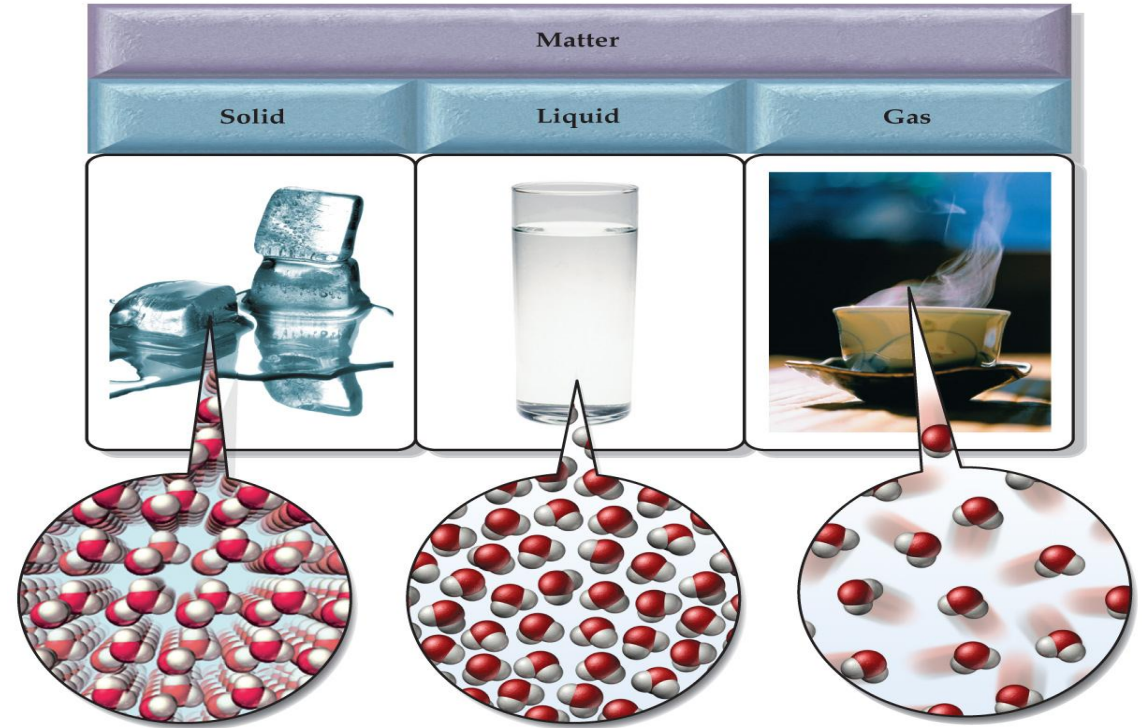
Which of the following can be classified as matter?

- a) Lead
- b) Salt
- c) Car
- d) Chair
- e) All of the above**

Question 3

A state of matter that has a definite volume and is relatively incompressible is a

- a) solid.
- b) **liquid.**
- c) gas.
- d) All of the above
- e) Two of the above



Which of the following would NOT be considered matter?

- a) Water**
- b) Sugar**
- c) Light**
- d) Gasoline**
- e) Sand**

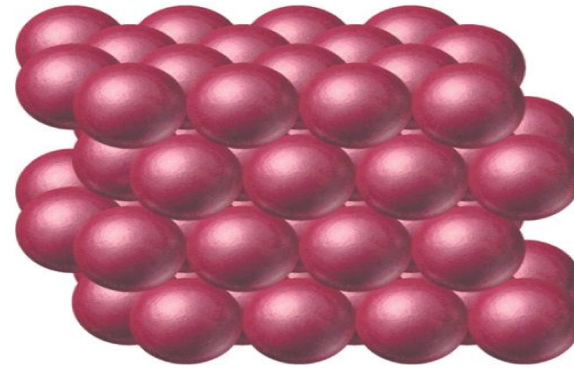
Question 5

Which of the following has a fixed volume and a definite shape?

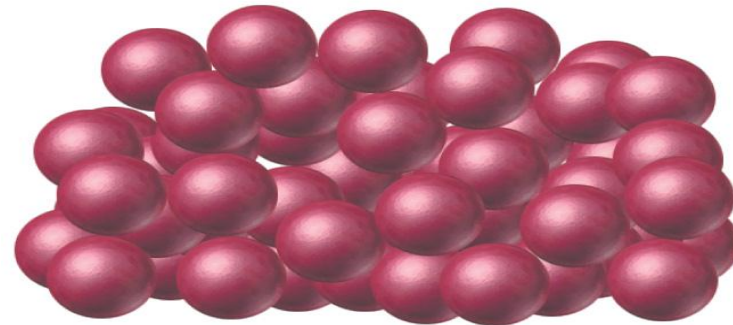
- a) Liquid mercury
- b) H₂O as ice**
- c) H₂O as water
- d) Oxygen gas
- e) A compressible gas

Which of the following is an example of an amorphous solid?

- a) Diamond
- b) Table Salt
- c) Gold
- d) Water
- e) **Plastic**



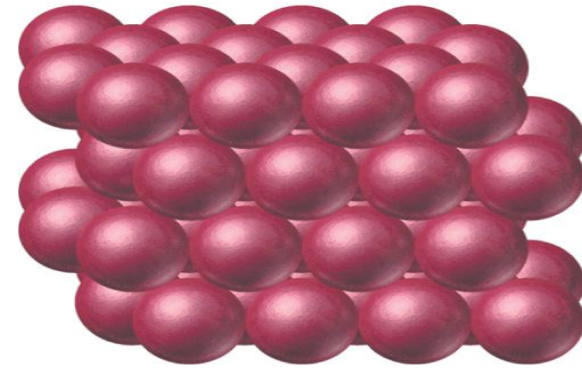
(a) Crystalline solid



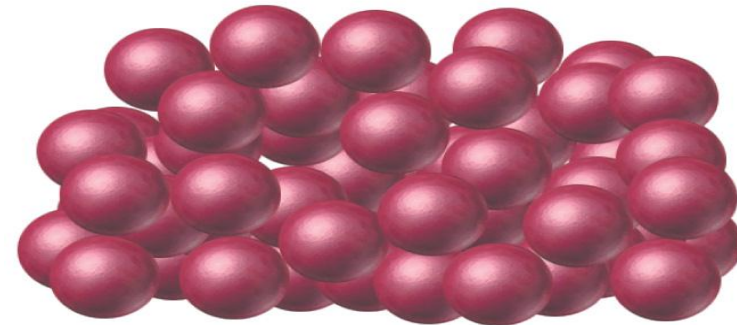
(b) Amorphous solid

Which of the following is an example of a crystalline solid?

- a) **Table Salt**
- b) **Glass**
- c) **Carbon**
- d) **Plastic**
- e) **Non of the above**



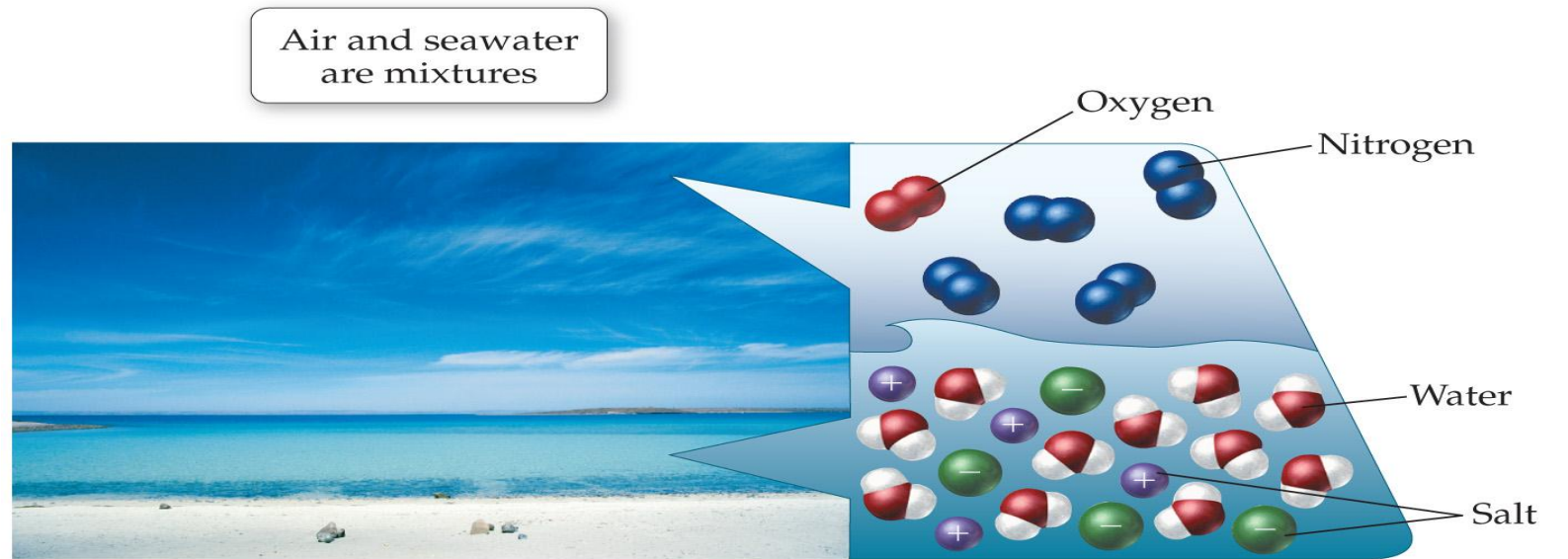
(a) Crystalline solid



(b) Amorphous solid

Which of the following is a mixture?

- a) **Seawater**
- b) **Iron ores**
- c) **Air**
- d) **Milk**
- e) **All of the above**



Which of the following is an element?

- a) Sugar
- b) Salt
- c) Helium**
- d) Air
- e) All of them

Which of the following is a compound?

- a) Water**
- b) Sodium**
- c) Hydrogen**
- d) Air**
- e) All of them**



Assessment

Chemistry: Lesson 02



Which of the following is a physical change?

- a) A piece of paper burns.
- b) An apple ripens.
- c) Gasoline is changed into carbon dioxide and water.
- d) **Heat causes ice to change into water vapor.**
- e) Sugar is digested.

Which of the following is NOT a chemical property?

- a) The density of a liquid**
- b) The ability of iron to rust**
- c) Flammability of gasoline**
- d) Reactivity of acids with metals**
- e) All of these are chemical properties.**

Which is the opposite of evaporation?

- a) **Sublimation**
- b) **Deposition**
- c) **Melting**
- d) **Freezing**
- e) **Condensation**

Which of the following is true for chemical changes?

- a) They are changes in state.
- b) **They form new substances.**
- c) They can usually be reversed.
- d) All of the above

Which one of the following choices includes only chemical changes?

- a) **Decay, digestion, and burning**
- b) **Rusting, evaporation, and decay**
- c) **Melting, freezing, and digestion**
- d) **Corrosion, sublimation, burning**
- e) **Melting, evaporation, and sublimation**

Which of the following is a physical property?

- a) A metal can react with acids.
- b) Paper can be burned.
- c) Salt crystals have a cube shape.**
- d) A metal can corrode by combining with oxygen.
- e) Sugar can be digested

Physical properties are usually determined by observing how a substance reacts with another one.

a) True

b) False

Which of the following is a physical change?

- a) **Burning butane**
- b) **Barbequing a steak**
- c) **Decomposing water into hydrogen and oxygen gases**
- d) **Breaking a piece of glass**
- e) **Baking a cake**

Which of the following statements is FALSE?

- a) The freezing of water is a physical change.
- b) The conversion of compounds into elements is a physical change.**
- c) Combining sodium metal and chlorine gas to form sodium chloride is a chemical change.
- d) Photosynthesis is an example of a chemical change.

Boiling point is an example of a

- a) physical change.
- b) chemical change.
- c) quantitative property.
- d) physical property.**
- e) chemical property.





Assessment

Chemistry: Lesson 03



The “SI” unit for mass is the:

a) pound

b) kg

c) cubic cm

d) inch

The “SI” unit for length is the:

a) Kg

b) cm

c) m

d) km

Convert 64 kg into lbs. [1 kg = 2.2 lbs]

a) 0.034

b) 29.1

c) 140.8

d) 128.5

e) 101.7

A measurement of 7.2 cm equals ___ meters.

- a) 0.072**
- b) 0.0072**
- c) 720**
- d) 7200**
- e) Non of the above**

Density is the ratio of:

a) Volume to mass

b) Length to mass

c) Mass to volume

d) Mass to area

Which of these units is the same in both the English and the metric system?

a) Second

b) °C

c) Kilogram

d) Meter

e) Liter

What are the fundamental SI units of length, mass, time, and temperature, respectively?

- a) km, kg, s, K
- b) m, g, s, °C
- c) m, g, s, K
- d) m, kg, s, °C
- e) m, kg, s, K**

Convert 42 °C to °F and express the answer to the correct number of significant figures.

- a) 42 °F
- b) 107 °F
- c) 107.6 °F**
- d) 108 °F
- e) 315 °F

Convert 97 °C to K and express the answer to the correct number of significant figures.

a) 369 K

b) 370 K

c) 397 K

d) -176 K

e) No listed answer is correct.

الجواب هو 370.15

What is the density (g/mL) of an object that has a mass of 14.01 grams and, when placed into a graduated cylinder, causes the water level to rise from 25.2 mL to 33.6 mL?

a) 0.60

b) 1.7

c) 1.8

d) 2.4

e) None of the above

1.66 الجواب