

S8P1-1

1. What is the smallest particle of the element gold (Au) that can still be classified as gold?

- A. atom
- B. molecule
- C. neutron
- D. proton

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2. Which of the following elements is part of the chemical formula for table salt?

- A. Na
 - B. Si
 - C. S
 - D. O
-

3. Which symbolizes a molecule of a compound?

- A. He
 - B. Be
 - C. N₂
 - D. NaCl
-

4. Plastic, wood, and iron are all made up of

- A. cells.
 - B. atoms.
 - C. carbon.
 - D. plants.
-

5. Water is

- A. a compound.
 - B. an element.
 - C. a solution.
 - D. a mixture.
-

6.

What do these substances have in common?

air
helium gas
salt water
copper wire

- A. They are compounds.
 - B. They are pure substances.
 - C. They are composed of atoms.
 - D. They are composed of molecules.
-

7.

Two or more atoms, joined covalently, that act as a unit, are called a(n)

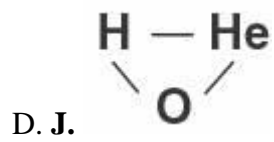
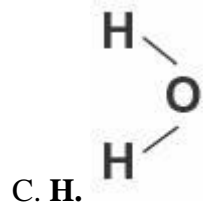
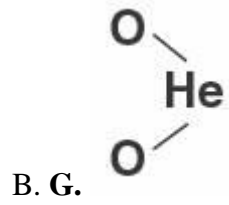
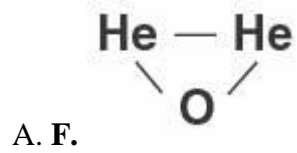
- A. ion.
 - B. atom.
 - C. mixture.
 - D. molecule.
-

8.

Which of the following particles combine to form molecules?

- A. atoms
 - B. protons
 - C. electrons
 - D. compounds
-

9. Which picture illustrates the structure of a molecule of water?



10. According to the chart, on which planet would a ball fall the fastest?

Planet	Earth	Jupiter	Neptune	Saturn
Acceleration due to Gravity (m/s ²)	10	26	14	12

- A. Earth
- B. Jupiter
- C. Neptune
- D. Saturn

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11.

12.011
C
6

The diagram above shows a block from the periodic table. The number six represents the

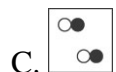
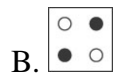
- A. atomic mass of the element carbon
- B. atomic number of the element carbon
- C. number of neutrons in the element carbon
- D. number of valence electrons in the element carbon

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12. Which formulas represent compounds?

- A. O_2 , H_2O_2
 - B. CO_2 , H_2O
 - C. H_2 , CO_2
 - D. H_2 , O_2
-

13. If different kinds of atoms are represented by different colored dots, which picture below represents a mixture?



14. Which of the following is a compound?

- A. oxygen
- B. water
- C. nitrogen
- D. air

15. A solution in a dish contains 3.0 grams of salt dissolved in 100 grams of water. If 50 grams of the water evaporate, the solution is

- A. a compound.
- B. a mixture.
- C. an element.
- D. a solid.

16. Carbon dioxide is

- A. an element.
 - B. a compound.
 - C. a solution.
 - D. a mixture.
-

17. A chemical change combining two elements results in

- A. an atom.
 - B. a compound.
 - C. an element.
 - D. a mixture.
-

18. John has a mixture of salt, sand, and iron filings. To remove the iron filings from the mixture, John should

- A. run a magnet through the mixture.
 - B. put the mixture in water and stir it.
 - C. throw the mixture into the air and see which material falls first.
 - D. blow on it and keep what does not blow away.
-

19. When mud and water are combined, the result is

- A. a mixture.
 - B. a compound.
 - C. an element.
 - D. a molecule.
-

20. Which of the following is an element?

- A. air
- B. salt
- C. water
- D. oxygen

Answer Key

1. A) atom

2. A) Na

3. D) NaCl

4. B) atoms.

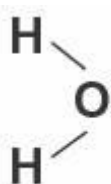
5. A) a compound.

6. C) They are composed of atoms.

7. D) molecule.

8. A) atoms

9. C) **H.**



10. B) Jupiter

11. B) atomic number of the element carbon

12. B) CO₂, H₂O

13. B)



14. B) water

15. B) a mixture.

16. B) a compound.

17. B) a compound.

18. A) run a magnet through the mixture.

19. A) a mixture.

20. D) oxygen
