

Foundations of Chemistry

Chemistry · Answer Key · 8 Questions

1. Which of the following is the chemical symbol for the element gold?

- A) Ag
- B) Au**
- C) Fe
- D) Cu

2. What is the atomic number of carbon?

- A) 4
- B) 6**
- C) 8
- D) 10

3. A pure substance that cannot be broken down into simpler substances by chemical means is called:

- A) A compound
- B) A mixture
- C) An element**
- D) A molecule

4. Which of the following is an example of a homogeneous mixture?

- A) Salad dressing
- B) Saltwater**
- C) Sand and water
- D) Granite

5. The number of protons in an atom's nucleus determines its:

- A) Mass number
- B) Atomic mass
- C) Atomic number**
- D) Isotope

6. What is the chemical formula for water?

- A) CO₂
- B) NaCl
- C) H₂O**
- D) O₂

7. Which state of matter has a definite volume but takes the shape of its container?

- A) Solid
- B) Liquid**
- C) Gas
- D) Plasma

8. The central part of an atom, containing protons and neutrons, is called the:

- A) Electron shell
- B) Nucleus**
- C) Valence band
- D) Orbit