

## Chapter 3 Chemistry Test: The Atom

### Multiple Choice

Choose the choice that best completes the statement or answers the question.

- \_\_\_\_ 1. The law of conservation of mass follows from the concept that
- atoms are indestructible.
  - atoms of different elements have different properties.
  - matter is composed of atoms.
  - atoms can be destroyed in chemical reactions.
- \_\_\_\_ 2. Who explained the behavior of positively charged particles being deflected from a metal foil in the nucleus?
- Ernest Rutherford
  - John Dalton
  - James Chadwick
  - Walter Rastar
- \_\_\_\_ 3. In the gold foil experiment, most of the particles fired at the foil
- bounced back.
  - passed through the foil.
  - were absorbed by the foil.
  - combined with the foil.
- \_\_\_\_ 4. What did Rutherford conclude about the structure of the atom?
- An atom is indivisible.
  - Electrons make up the center of an atom.
  - An atom carries a positive charge.
  - An atom contains a small, dense, positively charged central region.
- \_\_\_\_ 5. A nuclear particle that has about the same mass as a proton, but with no electrical charge, is called a(n)
- neutron.
  - electron.
  - isotope.
  - isotope.
- \_\_\_\_ 6. Which part of an atom has a mass approximately equal to  $1/1836$  of the mass of a common hydrogen atom?
- neutron
  - electron
  - proton
  - electron cloud
- \_\_\_\_ 7. The mass of a neutron is
- about the same as that of a proton.
  - about the same as that of an electron.
  - double that of a proton.
  - double that of an electron.
- \_\_\_\_ 8. The nucleus of most atoms is composed of
- tightly packed protons.
  - tightly packed neutrons.
  - tightly packed protons and neutrons.
  - loosely connected protons and electrons.
- \_\_\_\_ 9. An aluminum isotope consists of 13 protons, 13 electrons, and 14 neutrons. Its mass number is
- 13.
  - 14.
  - 27.
  - 40.
- \_\_\_\_ 10. Isotopes are atoms of the same element that have different
- physical chemical properties.
  - masses.
  - numbers of protons.
  - numbers of electrons.
- \_\_\_\_ 11. Atoms of the same element that have different masses are called
- isotopes.
  - isotopes.
  - neutrons.
  - neutrons.
- \_\_\_\_ 12. Most of the volume of an atom is occupied by the
- neutrons.
  - neutrons.
  - electron cloud.
  - protons.

# Modern Chemistry Chapter 3 Test Answer Key

**Marco Casella**



## Modern Chemistry Chapter 3 Test Answer Key:

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