

What are atoms?

Lesson Review

Write *true* if the statement is true. If the statement is false, change the underlined term to make the statement true. Write your answers in the spaces provided.

- _____ 1. A piece of copper cannot be broken down into some simpler type of matter.
- _____ 2. The atomic theory states that atoms of two or more elements can join together to form other elements.
- _____ 3. The first person to suggest the idea of atoms was Dalton.
- _____ 4. All elements are composed of atoms.
- _____ 5. The word element comes from a Greek word that means “cannot be divided.”
- _____ 6. The smallest part of an element that can be identified as that element is an atom.
- _____ 7. Atoms of different elements are the same.
- _____ 8. The atomic theory states that atoms can be destroyed.
- _____ 9. Democritus and his students thought that atoms were always moving.
- _____ 10. A modern atomic theory was stated by Democritus.

Skill Challenge

Skills: *interpreting, analyzing*

The table below lists the four main parts of Dalton's atomic theory. In the spaces provided, write which part of the atomic theory supports the given statement.

DALTON'S ATOMIC THEORY
1. All elements are composed of atoms. Atoms cannot be divided or destroyed.
2. Atoms of the same element are exactly alike.
3. Atoms of different elements are different from each other.
4. The atoms of two or more elements can join together to form types of matter called compounds.

- _____ 1. Atoms of sodium can combine with atoms of chlorine to form table salt.
- _____ 2. Every calcium atom has the same number of protons.
- _____ 3. All neon atoms have the same number of electrons.
- _____ 4. Hydrogen atoms can combine with oxygen atoms to form water.
- _____ 5. An atom of hydrogen weighs much less than an atom of silver.