

# Atom

STUDENT BOOK pp. 6, 35, 399

1. Which of the statements below does not describe an atom?

- a) An atom could be described as a tiny bead of matter. ☐
- b) An atom is the smallest particle of matter obtained by chemical means. ☐
- c) An atom consists of a nucleus containing particles around which smaller particles gravitate. ☐
- d) An atom is a sample of uniform matter. ☐

2. True or false?

- a) We are matter and therefore made up of atoms. \_\_\_\_\_
- b) All atoms in a sample of iron are identical. \_\_\_\_\_
- c) In a chemical reaction, atoms divide to form other atoms. \_\_\_\_\_
- d) All atoms have the same mass. \_\_\_\_\_
- e) Aluminum atoms are different from silver atoms. \_\_\_\_\_
- f) The words "atom" and "element" are synonyms. \_\_\_\_\_

3. Which of the following particles are atoms? Check the correct answers.

- a) Particle of helium ☐
- b) Particle of carbon dioxide ☐
- c) Particle of water ☐
- d) Particle of air ☐
- e) Particle of sodium ☐
- f) Particle of salt ☐

4. What is the difference between an atom and a molecule?

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5. Chemically bonding a sodium atom and a chlorine atom produces a molecule of sodium chloride. Does this molecule have the same properties as the chlorine and sodium atoms? Explain your answer.

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