

## Section Review

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### Development of the Atomic Theory

#### USING KEY TERMS

1. In your own words, write a definition for the term *atom*.

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The statements below are false. For each statement, replace the underlined term to make a true statement.

2. A nucleus is a particle with a negative electric charge.

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3. The electron is where most of an atom's mass is located.

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#### UNDERSTANDING KEY IDEAS

- \_\_\_\_\_ 4. Which of the following scientists discovered that atoms contain electrons?
- a. Dalton
  - b. Thomson
  - c. Rutherford
  - d. Bohr

5. What did Dalton do in developing his theory that Democritus did not do?

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6. What discovery demonstrated that atoms are mostly empty space?

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7. What refinements did Bohr make to Rutherford's proposed atomic theory?

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Section Review *continued*

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**CRITICAL THINKING**

8. **Making Comparisons** Compare the location of electrons in Bohr's theory with the location of electrons in the current atomic theory.

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9. **Analyzing Methods** How does the design of Rutherford's experiment show what he was trying to find out?

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**INTERPRETING GRAPHICS**

10. What about the atomic model shown below was shown to be incorrect?



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