

General Chemistry  
Mr. MacGillivray  
Quiz #7:  
Development of Atomic Theory

Match each contribution to the development of the atomic model with the appropriate scientist. Some answers are used more than once.

- |   |  |
|---|--|
| 1. Niels Bohr                                       | (a) suggested that atoms are mostly empty space  |
| 2. Ernest Rutherford                                | (b) a philosopher who came up with the idea of atoms but who had no experimental evidence to support his idea          |
| 3. John Dalton                                      | (c) discovered the electron  |
| 4. Max Planck, Erwin Schrödinger, Werner Heisenberg | (d) performed gold foil experiment   |
| 5. J.J. Thompson                                    | (e) used experiments on gases to suggest that atoms exist; every element has its own atom, atoms are indivisible, etc. |
| 6. Democritus                                       | (f) discovered the nucleus   |
|   | (g) developed "planetary" model of the atom  |
|   | (h) responsible for the plum pudding model   |
|   | (i) developed quantum mechanical model of the atom   |
|   | (j) suggested that electrons move in fixed "orbits" around the nucleus   |

PUT NUMBERS IN THE APPROPRIATE BOXES BELOW.

A _____	F _____
B _____	G _____
C _____	H _____
D _____	I _____
E _____	J _____

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PUT NUMBERS IN THE APPROPRIATE BOXES BELOW.

A. <u>2</u>	F. <u>2</u>
B. <u>6</u>	G. <u>1</u>
C. <u>5</u>	H. <u>5</u>
D. <u>2</u>	I. <u>4</u>
E. <u>3</u>	J. <u>1</u>