

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.

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| 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 _____