

# Atomic Structure Bell Ringer

1. Place the atomic models in order of their atomic discoveries. Starting with the earliest.

- a. Electron cloud model
- b. Plum pudding model
- c. Nuclear model
- d. Solid sphere model
- e. Quantum model

**Correct order:**

2. Decide whether the following statements are true or false. If the statement is correct, then leave it as is. If the statement is false, correct it to make it true.

- a. Thomson discovered the neutron.
- b. Atoms primarily consist of empty space.
- c. Rutherford used alpha particles in his experiments
- d. Protons are able to change energy levels.
- e. Chadwick discovered that electrons prevent the nucleus from breaking apart.

3. Choose one model from the following list and describe one of its key findings.

- Electron cloud model
- Plum pudding model
- Nuclear model
- Solid sphere model
- Quantum model