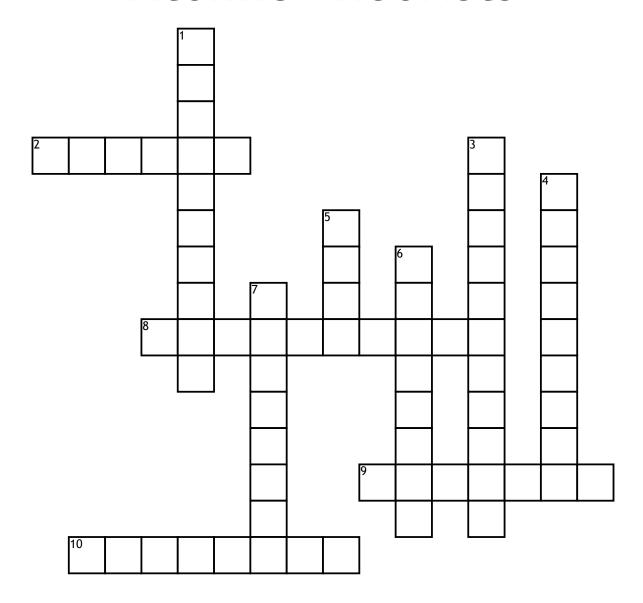
## Atomic Theorists



## **Across**

- 2. Elements consist of atoms and compounds are a collection of atoms
- 8. Alpha particles, positive charge with a mass 7500x of electron. Proved the plum pudding model was wrong. Nucleus center (+) and tiny electrons moved in space around it
- **9.** Helped to arrange atoms in the periodic table. Atoms were arranged in increasing atomic straight circular paths number using wavelengths and x-rays
- **10.** Oil drop experiment: discovered that atoms had positive and negative charges and that they equal each other

## Down

- 1. Matter is composed of empty space in which atoms move
- 3. Wave Mechanical Model or Quantum Mechanical Model. Furthered De Broglie's idea of waves by stating that electrons are in clouds but in certain energy region
- 4. electrons move in waves rather than
- 5. Electrons are in circular paths depending on their energy levels
- 6. "Plum pudding model": Atoms contain negitive particles called electrons
- 7. Discovered neutrons (slightly more massive than a proton)