

Rutherford Scattering

Simulation

Learning goal: Students will be able to describe the interaction between oppositely charged particles and between like charged particles, and describe the current atomic model.

- Open the Rutherford Scattering simulation and explore. Record at least one (more if you like) interesting thing you notice.
- Open the Plum Pudding atom. Describe the interaction between each subatomic particle and an alpha particle. If you were J.J.Thomson, how would you explain what is happening?
- Open the Rutherford atom. Describe the interaction between each subatomic particle and an alpha particle. If you were Ernest Rutherford, how would you explain what is happening?
- Why are the paths of the alpha particles in each atom different?
- Describe the current atomic model.
- Explain how at least one of the scientists discussed in class contributed to the current atomic model