

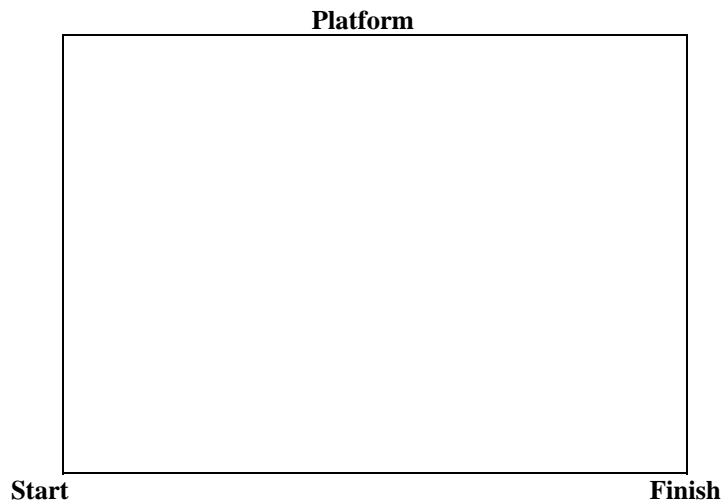
First Name: _____ Last Name: _____
Band: _____

Lab 4.2
Rutherford's Model of the Atom

Checklist: mark at which position(s) any deflection was noted along the tray.

Distance	3 cm	6 cm	9 cm	12 cm	15 cm	18 cm	21 cm	24 cm	27 cm	30 cm
Straight										
Deflect										

Draw the paths that your "Alpha Particles" took, and draw in the "nucleus":



Summary Questions: (Answer Here)

1. On which of the paths of the platform were the paths of the "Alpha Particles" straight?

2. Explain why some of the particles were deflected, pretending this was Rutherford's experiment.

3. If the platform represents an atom, explain the relationship between the nucleus and the atom. Consider the size of the atom and nucleus, and 2 other things we have talked about in class.

4. Why did the nucleus deflect the alpha particle in Rutherford's experiment?

5. In Rutherford's experiment, nearly all of the "Alpha Particles" pass through with no deflection. What does this tell you about the nucleus?
