**CHE1031 Tutorial: Discovery of the nucleus – Rutherford’s gold foil expt.[[1]](#footnote-1)**

**VIDEOS:**

‘Discovery of the nucleus: Rutherford’s gold foil experiment’ from Tyler DeWitt

<https://www.youtube.com/watch?v=dNp-vP17asI&list=PL3hPm0ZdYhyxYBS94sd8iqDttfDiaY19Z&index=3>

**Please watch the video and then answer these questions:**

1. What does DeWitt suggest Americans visualize instead of plum pudding?
2. Are alpha particles the same size as, larger than, or smaller than atoms?
3. What was the most important characteristic of the gold foil used for the experiment?
4. Rutherford’s model of the nucleus is still thought to be accurate, but how we think about the location and behavior of electrons has changed. What do we think is different?
5. When were neutrons discovered and found to be part of the nucleus?
6. Why did Rutherford and his colleagues expect alpha particles to go straight through the gold foil?
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