**Mini-quiz #2 Chemistry 1114 section 2 (Fong) 30 August 2013 4 pts A**

**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_answers\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is the `popular’ name of J.J. Thomson’s atomic model\_\_Plum Pudding model\_\_
2. An alpha particle is really what atomic species ? (include charge) \_\_He+\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Which experiment (the name) by Rutherford effectively `killed’ the Thomson model ?

 \_\_\_\_\_gold leaf experiment\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Briefly explain what observation in the above experiment was hardest to explain with

 Thomson’s model.

**Occasionally the fast moving and heavy alpha particles bounced back from the gold leaf, disproving the presence of an evenly distributed and thin material density in the atom.**

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**Your name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ answers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What is the `popular’ name of Rutherford’s experiment?\_gold leaf experiment\_\_\_\_
2. An alpha particle is really what atomic species ? (include charge) \_\_\_\_He+\_\_\_\_\_\_\_\_\_\_\_\_
3. Which scientist was first to propose an atomic model based on observation?

\_\_\_\_\_\_\_\_\_\_\_J. J. Thomson\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Briefly explain how Rutherford’s famous experiment disproved the Plum Pudding model

**Occasionally the fast moving and heavy alpha particles bounced back from the gold leaf, disproving the presence of an evenly distributed and thin material density in the atom.**