

Name: _____ Period: _____ Due Date: _____

Models of the Atom - Homework

Use the link below to answer the following questions:

<http://www.universetoday.com/38326/plum-pudding-model/>

1. Who proposed the plum pudding model?
2. In the plum pudding model of the atom, what do the plums represent?
3. In this model, what does the dough represent?
4. What major step does the plum pudding model represent in terms of atomic research?
5. How is this model different from modern models of the atom?
6. Briefly describe the apparatus Thomson used in his experiments.
7. Describe what Thomson observed during his experiments.
8. Thomson named the particles he discovered during his experimentation 'corpuscles'. What do we now know these particles as?
9. What awards did Thomson receive for his work on the atom?

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10. Which model replaced Thomson's?
11. What is the 'Thomson Problem'?
12. How did Geiger and Marsden contribute to the model of the atom?
13. What are alpha particles?
14. What role did Rutherford play in the modelling of the atom?
15. Why are models useful in Science?