

Sc. 8 Unit 3**Modelling the Atom**

Name: _____

Due: Tuesday June 8, 2021

Period: 7 or 8 (Circle one)

Total: _____/16

This project will assess your knowledge of the work of a scientist or lab who advanced the understanding of atomic structure & atomic theory.

Part 1:

Complete the written questions on Atomic Theory. The questions are in the Atomic Theory timeline booklet. This was given out in class on Tuesday June 1, 2021.

Part 2:

In your assigned group (*you will be placed into a group=random grouping*) produce a presentation about your scientist/or lab that includes a model of either the scientist's theory of the atom or a key experiment. Do research to find out about your scientist's contribution to atomic theory.

In your group collaborate (*work together*) to make a plan for completing the following:

A. Making your model

Please use the grading rubric to guide you while completing this assignment:

GRADING RUBRIC	4	3	2	1
Timeliness	On time: class time is used efficiently	Excused absence		Not on time
Knowledge: Clear and concise understanding of how the scientist's key features of atomic theory or experiment	The model is detailed enough to show the key features of the scientist's atomic theory or model. The model is dynamic as necessary to demonstrate the progress of an experiment. The model illustrates the strengths and weaknesses of the scientists' work. The group was able to answer questions from the class.			
Thought and creativity	Work is in-depth, reflective and thoughtful. A creative approach was taken.			
Neatness and Organization	Considerable care and attention was taken.	Neat and creative	A little neat and a little creative	Lacks neatness

	I can tell you put effort and care into your presentation.			and creativity
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B. Giving your presentation:

Consider including some of these features:

- a live or recorded simulated interview with your scientist
- a slideshow that explains the key points of your scientist's contribution
- a discussion of how your scientist fits into the larger picture of the development of atomic theory

Tips:

You may wish to divide your group into two teams and have one team work on the model and the other work on the presentation.

Make sure to communicate with each other if you choose this approach.

****Check with Ms. Ignas to make sure that your plan and approach makes sense****

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This project will assess your knowledge of the work of a scientist or lab who advanced the understanding of atomic structure

Please select one of the following topics/scientists for your presentation. If you don't see a topic that you are interested in please identify a scientist or lab for your presentation.

#	Topic	Name/Period	Group members
1	John Dalton		
2	William Crookes		
3	Robert Millikan		
4	Ernest Rutherford		
5	Marie Curie		
6	Niels Bohr		
7	Henry Mosely		
8	Special topic & approval given		

