

Chemistry Quarter Project

1st Quarter = Development of Atomic Theory Presentation

INTRODUCTION:

You and your group must present one of the experiments that led to the development of the current theory of the atom. Each presentation must include a PowerPoint that is submitted to the teacher as well as a poster that the group must present to the rest of the class.

PURPOSE:

The purpose of this project is to learn how the model of the atom has progressed over time and the people who have contributed to the development of the current model of the atom.

REQUIREMENTS:

Part 1 = PowerPoint (Google-Slides)

- Must be created in Microsoft Powerpoint (Google Slides is the same thing)
- Must include the progression of the theory or the experiment that led to the progression of the theory
- Must include the timeline in history in which the progression or experiment took place (or was published)
- Must include a step-by-step description of the theory and/or how it was derived if it was not an experiment
- Must include a step-by-step description of the experiment and what conclusions came from the experiment

Part 2 = Poster & Presentation

- Must be done on poster board with each group members name written on the back
- Must have diagram of the experiment performed or a picture of the individual responsible for the progression of the theory on the front of the poster
- Must have at least 4 other pieces of information on the front of the poster
- Each person in your group must explain part of the experiment or theory

Powerpoint Rubric	0 points	1 point	2 points	3 points
Title Slide on 1 st Page	Missing Title Slide	Title Present, Topics Not Present	Title Present, Not All Topics Present	Title Present, All Topics Present
Scientist & Timeline	Missing both background on scientist and timeline	Missing one or both present, but not in detail	Both present, one in detail, one not in detail	Both background and timeline are in detail
Experiment & Theory	Missing both experiment and theory	Missing one or both present, but not in detail	Both present, one in detail, one not in detail	Both experiment and theory are in detail
References Slide on Last Page	Missing Reference Page	Sources listed, but not properly in APA/MLA	Less than 4 sources listed properly in APA/MLA	At least 4 sources listed properly in APA/MLA

Presentation Rubric	0 points	1 points	2 point	3 points	4 points
Visual on Poster	No poster or did not present	Visual too small, not accurate and detailed	Visual proper size, not accurate or detailed	Visual proper size, accurate and detailed	Visual proper size, very accurate & very detailed
Other Information	No poster or did not present	0-1 additional pieces of information listed or 2 listed but can't read	2 pieces of readable info listed or 3 listed but can't read	3 pieces of readable info listed or 4 listed but can't read	4+ additional pieces of information listed and can be read from back
Understanding of Content	Did not present	Student unable to demonstrate minimal understanding of topics	Lack of clarity and lack of thorough understanding	Lack of clarity or lack of thorough understanding	Clear and thorough understanding of topics
Presentation	Did not present	Presented, but needed to read word-for-word off poster/notes often	Presented, but read directly off poster or had to read note cards often	Presented, but needed to use note cards to remember what to say	Presented and only had to use the 4 main pieces of info on poster to guide
Quality of Work	No work to be evaluated	Work was below-average quality or clearly done last minute	Work was of average quality and/or clearly done last minute	Work was of high quality and time clearly put into it	Work was of very high quality and lots of time clearly put into it

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List of Scientists for Development of Atomic Theory Project

- 1) Aristotle
- 2) Democritus
- 3) John Dalton
- 4) William Crookes
- 5) J.J. Thomson
- 6) Albert Einstein
- 7) Robert Millikan
- 8) Eugene Goldstein
- 9) Hantaro Nagaoka
- 10) Ernest Rutherford
- 11) Niels Bohr
- 12) Louis de Broglie
- 13) Werner Heisenberg
- 14) Erwin Schrodinger
- 15) James Chadwick