

Activity: Atomic Theory Timeline

Task: You and your partner(s) will be assigned a contributor who played a part in our current understanding of atomic structure and/or the periodic table. Your job is to research your scientist and gather information on his specific discovery, when it occurred, and how it contributed to our current understanding of the atom. You can do this by hand or using a device. Each group will make an 8.5 x 11 sheet summarizing their findings in a visually appealing and easy-to-read way. As a class, we will assemble our atomic structure timeline in chronological order to be displayed throughout the remainder of this unit.

Requirements: *The following must be included on your final work to be displayed in the classroom.*

- Date of discovery
- Name of discoverer
- Picture of discoverer
- Name of model (if applicable)
- Picture or drawing of model (if applicable)
- Description of discovery/contribution to atomic theory
- Formal citation of reference(s) listed on the back
- COLORFUL, neat and visually appealing!!
- Overall piece demonstrates accuracy
- Must fit on an 8.5 x 11 piece of computer paper and be completed and turned in ON TIME!

Contributors: (put a star by the one you get assigned!)

<ul style="list-style-type: none"> • Aristotle • Democritus • John Dalton • Dmitri Mendeleev • JJ Thomson 	<ul style="list-style-type: none"> • Ernest Rutherford • Henry Moseley • Niels Bohr • Schrodinger and Heisenberg • James Chadwick
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Rubric:

	Excellent (10 points)	Satisfactory (9-7 points)	Needs Improvement (6-3 points)	Unacceptable (2-0 points)
Content	All content listed under requirements is included.	Most content listed under requirements is included.	Some content listed under requirements is included.	Very little content listed under requirements is included.
Appearance	Appearance is neat, descriptions are typed or neatly written, and the content is organized on an 8.5 x 11 piece of paper.	Appearance is mostly neat, descriptions are typed or neatly written and is organized on an 8.5 x 11 piece of paper.	Writing is hard to read and/or the project is not neatly done. Work may or may not be on an 8.5 x 11 piece of paper.	Appears hastily made. The content is not neat or organized. Work may or may not be on an 8.5 x 11 piece of paper.
References	All research used is included on the back of the paper, in a correct formal citation format.	Most research used is included on the back of the paper, in a correct formal citation format.	Research used is included on the back of the paper, but not in a correct formal citation format.	Research is not referenced or cited in any format.
Overall	Overall work is colorful, visually appealing, organized, and accurate. Work stands out from the rest and shows evidence of extra effort.	Overall work is mostly colorful, visually appealing, organized, and accurate. and shows evidence of good effort.	Overall work is somewhat colorful, visually appealing, organized, and accurate. More effort needed.	Overall work is not colorful, visually appealing, organized, and accurate. Lack of effort is evident.