

Atomic Theory Time-Line Project

Grading rubric **MUST** be attached to the time line project. Due 9/27/16

Purpose: To discover how our understanding of the atom has changed over time. Students will use a variety of sources to research the people who have played a part in improving our understanding of the atom. Using the information from your text book, class room discussion, “Atom” chapter and additional sources you find to construct a time line of the events that lead to our current understanding of the atom.

Required information for each of the 30 people (5 of which **MUST** have created an atomic model)

- Person’s name
- Year (of the discovery **or** the year they lived)
- Their contribution to Atomic Theory with thorough descriptions {**ideas listed below**}.
 - Their philosophy
 - Their experiment(s)
 - Their model (include illustration and description if they have a model)
 - The technological advances
 - Any additional relevant information

Helpful Sources:

- “Atom” chapter
- Chemistry textbook and class power point
- On-Line sources [search “History of the Atom” or “Atomic Theory History”]

People you may research:

HAVE ATOMIC MODELS Niels Bohr Hantaro Nagaoka JJ Thomson Phillip Lenard John Dalton James Chadwick Ernest Rutherford Quantum Mechanical Model (multiple people)	Other People of interest: Antoine Lavoisier Albert Einstein Michael Faraday Dmitri Mendeleev Isaac Newton Marie Curie Erwin Schrodinger Heisenberg Amadeo Avogadro THERE ARE MANY MORE
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Helpful hints:

- If one person had several contributions at different times in history they will count **ONLY** once for this project. You may have them in your time line more than once but they will only count as **ONE PERSON**.
- **The project can take MANY different forms. For example**
 - A photo/scrap book
 - Flip book
 - Animoto, Prezi, Glogster, Macromedia Flash, or other web based program.
 - Be creative, but the scientists **MUST** be in chronological order.

Sources:

- Sources must be sighted, copy and pasting information directly from a web page is plagiarism and students will receive a zero for the assignment.
- Remember to pick out the most important, unique, and most interesting contribution the people had.
- For web sites you **MUST** have the entire web address.
 - Google.com, bing.com, ect are **NOT** valid addresses. Example:
<http://schoolwires.henry.k12.ga.us/Page/26250> is my web page address for chem1st semester.

Atomic Theory Time Project Rubric

Due 9/27/16

Name _____ Date _____ Period _____

	Superb	Average	Poor
Contributors	30 or more people who contributed to discover the atom are included in the timeline with name, year, and their relevant information (3 or more sentences). Max 40 pt	Less than 25 people who contributed to discover the atom are included in the timeline with name, year, OR limited information on people (less than 3 sentences). Max 30 pt	Less than 20 scientists who created atomic models for the development of the atom are did not include name, year, and their relevant information. Max 20 pt
Models	5 or more scientist who created an atomic model with an illustration of the model and information about their model. Max 20 pt	4 scientist who created an atomic model with an illustration of the model and information about their model Max 16 pt	3 or less scientist who created an atomic model with an illustration of the model and information about their model Max 12 pt
Illustrations	Highly Illustrated: Illustrations for majority of the people who helped change our understanding of the atom Max 20 pt	Illustrations for some of the people who helped change our understanding of the atom Max 15 pt	Few or No illustrations are present in the timeline. Max 10 pt
Neatness	Project is very neat and well organized. Max 5 pt	Project is neat and organized. Max 3 pt	Project lacks neatness. Max 1 pt
Timeline Order	Student used the correct order for their timeline. <u>In the correct order of contribution/discovery.</u> Max 10 pt	3-5 errors in order of scientist. <u>In the correct order of contribution/discovery.</u> Max 7 pt	More than 5 errors in ordering of scientist. <u>In the correct order of contribution/discovery.</u> Max 5 pt
Sources	5 or more sources cited NOTE: if using a web site you MUST have the entire web address. Max 5 pts	3-4 sources cited NOTE: if using a web site you MUST have the entire web address. Max 4 pt	2 or less sources cited NOTE: if using a web site you MUST have the entire web address. Max 3 pt
TOTAL	<p>Bonus: Creativity (5 points) Comments:</p> <p>100 pt TEST grade</p> <p>Grading rubric MUST be attached to the time line project. If using an online medium write FULL address of project location.</p>		

Students who submit project without the rubric will receive a 5 point penalty.