Science 8 **Name_____**
Scientist Research Project **Date_____**

The discovery of the atom has a rich and complex history, filled with fascinating ideas, experiments, debates, and human drama. In this activity, you will research the work of some of the most brilliant scientists in history.

What to Do

1. Select a name from the list that follows.
2. You need to find out who these person was and how he/she contributed to the theory of the atom
3. Questions to try to answer in your research
    a. Where did he/she live?
    b. When did he/she live?
    c. What new information did he/she contribute to our understanding of the atom?
        i. What was the accepted idea or world view before?
        ii. How did he/she find this new information?
    d. What experiment(s) did they do?
        i. What were the results of the experiment?
    e. How did this information affect our understanding of the atom?
4. For your presentation, you may choose to
    a. Write a summary of up to 500 words.
    b. Create a PowerPoint presentation, explaining what you have found.
    c. Create an information poster including your own drawings or photographs with captions.
    d. If you have another idea for a presentation, please see me first to discuss it.
5. You must
    a. Include your **notes** with your presentation
    b. Document you resources using **APA** format including **in-text citations**
    c. Include a **reference list** using **APA** format

- Aristotle
- Democritus
- Isaac Newton
- Robert Boyle
- Antoine Lavoisier
- John Dalton
- Michael Faraday
- Joseph Priestley
- Jöns Berzelius
- Joseph Louis Proust
- Dmitri Mendeleev
- Albert Einstein
- Robert Millikan
- William Crookes
- Henry Moseley
- J. J. Thomson
- Hans Geiger
- Ernest Rutherford
- Harriet Brooks
- Niels Bohr
- Henri Becquerel
- Marie Curie
- Max Planck
- James Chadwick
- Louis de Broglie
- Werner Heisenberg
- Richard Feynman
- Murray Gell-Mann
- Gerd Binnig
- Heinrich Rohrer

Criterion D: Reflecting on the impact of Science (Year 3)

8-7	6-5	4-3	2-1	0
describe the ways in which science is applied and used to address a specific problem or issue	**summarize** the ways in which science is applied and used to address a specific problem or issue	**outline** the ways in which science is used to address a specific problem or issue	**state** the ways in which science is used to address a specific problem or issue	Not met any of the descriptors listed
discuss and analyze the implications of using science and its application to solve a specific problem or issue, interacting with a factor	**describe** the implications of using science and its application to solve a specific problem or issue, interacting with a factor	**outline** the implications of using science to solve a specific problem or issue, interacting with a factor	**state** the implications of the use of science to solve a specific problem or issue, interacting with a factor	Not met any of the descriptors listed
consistently apply scientific language to communicate understanding clearly and precisely	**usually** apply scientific language to communicate understanding clearly and precisely	**sometimes** apply scientific language to communicate understanding	apply scientific language to communicate understanding but does so with **limited** success	Not met any of the descriptors listed
document sources **completely**.	**usually** document sources correctly	**sometimes** document sources correctly	document sources, with **limited** success.	Not met any of the descriptors listed