

Name

Due



Biography of a Chemist

Grade 10 Science

Since the dawn of history, people have studied the properties of substances. From the early alchemists to modern Nobel Prize-winning chemists, the history of chemistry is full of fascinating personalities.

Task

Write a short biography (400-500 words) of a famous chemist. Your biography should have the following paragraphs:

- ❑ **Introduction:** Who were they? When and where did they live? What did they discover that makes them famous?
- ❑ **Life & Times:** When and where were they born? Where did they live and work? What major events were happening in the world? What music were people listening to? What clothing was fashionable? Were there other famous people they knew?
- ❑ **Discoveries:** What did they discover that made them famous? When and where did they discover it? How did they discover it? Did they do other important work, and if so what?
- ❑ **Legacy:** How do their discoveries fit into the science of chemistry? Do we still use them? What other discoveries (or fields) built on them?
- ❑ **Summary:** When and where did they live? What did they discover that made them famous? What other discoveries (or fields) built on them?

What to hand in

Hand in the following items:

- ❑ **note-taking sheets** for all the information presented in your biography
- ❑ your **biography** (hand-written, double-spaced)
- ❑ this page (for the **marking scheme**)

Evaluation

Your biography will be evaluated for the following expectations:

| Expectation | Level 1 | Level 2 | Level 3 | Level 4 |
|---|--|---|---|---|
| A1.7: select, organize, & record relevant information on research topics from various sources, using recommended formats & accepted forms of academic documentation | The student organizes ideas and information with limited effectiveness. | The student organizes ideas and information with some effectiveness. | The student organizes ideas and information with considerable effectiveness. | The student organizes ideas and information with a high degree of effectiveness. |
| A1.11: communicate ideas, plans, procedures, results, and conclusions orally, in writing and/or electronic presentations, using appropriate language and a variety of formats | The student expresses ideas and information with limited effectiveness. | The student expresses ideas and information with some effectiveness. | The student expresses ideas and information with considerable effectiveness. | The student expresses ideas and information with a high degree of effectiveness. |
| | The student uses convention, vocabulary, and terminology with limited effectiveness. | The student uses convention, vocabulary, and terminology with some effectiveness. | The student uses convention, vocabulary, and terminology with considerable effectiveness. | The student uses convention, vocabulary, and terminology with a high degree of effectiveness. |
| A2.2: identify scientists, including Canadians, who have made a contribution to the fields of science under study | The student demonstrates a limited understanding of the material. | The student demonstrates some understanding of the material. | The student demonstrates considerable understanding of the material. | The student demonstrates a high degree of understanding of the material. |

Chemists

Select your chemist from the following list. You cannot write about the same chemist as someone else in your class.

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|---------------------------|---------------------|------------------------------|
| ❑ Georgius Agricola | ❑ Francis Crick | ❑ Louis Pasteur |
| ❑ Svante Arrhenius | ❑ John Dalton | ❑ Linus Pauling |
| ❑ Karl Bayer | ❑ Humphry Davy | ❑ Marie-Anne Pierette Paulze |
| ❑ Claude Louis Berthollet | ❑ James Dewar | ❑ John Polanyi |
| ❑ Henry Bessemer | ❑ Paul Ehrlich | ❑ Joseph Priestley |
| ❑ Joseph Black | ❑ Emil Erlenmeyer | ❑ Guillaume-François Rouelle |
| ❑ Carl Bosch | ❑ Rosalind Franklin | ❑ Ascanio Sobrero |
| ❑ Robert Boyle | ❑ Fritz Haber | ❑ Thorbergur Thorvaldson |
| ❑ Hennig Brandt | ❑ Antoine Lavoisier | ❑ Harold Urey |
| ❑ Robert Bunsen | ❑ Dmitri Mendeleev | ❑ James D. Watson |
| ❑ Henry Cavendish | ❑ Wilhelm Ostwald | ❑ Thomas L. Wilson |