

Name

Due

Physics



Biography of a Physicist

Grade 10 Science

Since the dawn of history, people have studied the properties of light. From the early natural philosophers to modern Nobel Prize-winning physicists, the history of physics is full of fascinating personalities.

Task

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

- **Introduction:** Who were they? When and where did they live? What did they discover about optics 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 about optics 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 physics? Do we still use them? What other discoveries (or fields) built on them?
- **Summary:** When and where did they live? What did they discover about optics 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.

Physicist

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

- | | | |
|--|---|---|
| <input type="checkbox"/> Ernst Abbe | <input type="checkbox"/> Galileo | <input type="checkbox"/> August Köhler |
| <input type="checkbox"/> Alhazzen | <input type="checkbox"/> James Gregory | <input type="checkbox"/> Antoni van Leeuwenhoek |
| <input type="checkbox"/> Roger Bacon | <input type="checkbox"/> Francesco Maria Grimaldi | <input type="checkbox"/> Hans Lippershey |
| <input type="checkbox"/> Bonaventura Francesco Cavalieri | <input type="checkbox"/> Robert Grosseteste | <input type="checkbox"/> James Clerk Maxwell |
| <input type="checkbox"/> Salvino D'Armata | <input type="checkbox"/> Chester Moore Hall | <input type="checkbox"/> Jacob Metius |
| <input type="checkbox"/> René Descartes | <input type="checkbox"/> Hero of Alexandria | <input type="checkbox"/> Plato |
| <input type="checkbox"/> Leonard Digges | <input type="checkbox"/> Robert Hooke | <input type="checkbox"/> Giambattista della Porta |
| <input type="checkbox"/> Euclid | <input type="checkbox"/> Christian Huygens | <input type="checkbox"/> Ptolemy |
| <input type="checkbox"/> Giovanni Faber | <input type="checkbox"/> Ibn Sahl | <input type="checkbox"/> Willebrord Snellius |
| <input type="checkbox"/> Augustin-Jean Fresnel | <input type="checkbox"/> Zacharias Janssen | <input type="checkbox"/> Thomas Young |
| | <input type="checkbox"/> Johannes Kepler | |