

Science 9 Assignment

"The History of the Electricity"



Name:

Teacher: Miss Zukowski

Date:_

Block:

Due Date:

Task Background

For thousands of years, people all over the world have been fascinated by electricity. From the static charges of the ancient Greek's to harnessing the power of lightening, people have always wondered how to put that kind of power to practical use. But it wasn't until the 18th century that the path to the everyday use of electrical power began to take shape. Maybe you have heard about the famous kite experiment by American inventor Benjamin Franklin. In 1752, to prove that lightning was electrical power to make light. In 1879, the American inventor to find a way to use electric light bulb in his laboratory. Our understanding of electricity has developed greatly over the centuries. Today our standard of living has risen as nearly everyone has electric power at home, school and at work.

Task Instructions

- **Create a timeline** which describes the *history of electricity*.
 - This timeline may be completed on the computer (www.sutori.com class code: fssna)
 - May be completed on poster board
- □ Include the work of the following scientists <u>in chronological order</u>:

Thales of Miletus	Hans Christian Oersted	Charles Wheatstone*	Heinrich Hertz
William Gilbert	Michael Faraday*	Samuel Morse	Hendrik Lorentz
Francis Hauksbee	Thomas Johann Seebeck	Thomas Edison	Wilhelm Roentgen
Benjamin Franklin	Andre Ampere	Alexander Graham Bell	Guglielmo Marconi
James Wimshurst	Georg Ohm	Joseph Swan	Albert Einstein
Luigi Galvani	Joseph Henry	Nikola Tesla*	Alva Fisher
Alessandro Volta	Charles Wheatstone &	Magnus Volks	Fred W. Wolf
Sir Humphry Davy	William Fothergill Cooke	Charles Parsons	John Logie Baird

*these people may appear on your timeline more than once, for multiple discoveries and contributions!

- □ Include the following turning points in Canadian history:
- First coal power plant First hydroelectric power plant First tidal power plant
- First nuclear power plant
- First commercial wind farm
- □ Points on the timeline are to be marked as an influential discovery/contribution to the development of our understanding of electrical energy over time.

Each point should include:

- The **date** of the accomplishment (in most cases <u>year alone</u> is sufficient)
- Who contributed
- What the accomplishment/discovery/experiment was
- How it contributed to the development of our understanding of electricity.
- □ Pictures and diagrams are encouraged IF RELEVANT (example, include a video which explains the discovery, a diagram of an experiment conducted, etc. Persona portraits are not necessary)

NOTE: Accuracy of scientific information, and quality of content is the most important part of this task. However, you will be also be marked on the presentation of your final assignment.

Science 9: "History of Electricity" Marking Criteria Name:

		1	2	3	4	5
Criteria	Itation	Timeline is presented messy and/or mostly	Timeline is presented in chronological order.	Timeline is NOT presented in chronological order . OR	Timeline is presented neatly & in chronological order. Use of pictures and scientific diagrams to	Timeline is presented neatly & in correct chronological order. Use of pictures and <u>relevant,</u>
		incomplete.		Includes few pictures or scientific diagrams.	enhance understanding. Includes a title .	scientifically accurate diagrams to enhance understanding. Includes a descriptive title.
	lerstanding	Statement of isolated science knowledge	Definition and statement of science knowledge	Description, definition and identification of science knowledge	Clear description and explanation of science knowledge	Clear description and comprehensive explanation of science knowledge
		Statements of isolated science facts	Application of science knowledge to generate partial solutions and explanations. The work of <i>few</i> relevant	Application of science knowledge to generate solutions and explanations in simple situations Includes the work of <u>some</u> relevant scientists (or with some mistakes) as it	Analysis and application of science knowledge to generate solutions and informed explanations in a range of situations, including some that are complex Accurately includes the work of <u>most</u> relevant	Critical analysis and application of science knowledge to generate solutions and reasoned explanations in a range of situations, including some that are complex
			scientists is presented (or with several mistakes)	relates to the development of the atomic model	scientists as it relates to the development of the atomic model	Accurately evaluates the work of <u>all</u> relevant scientists as it relates to the development of the atomic model
	Communication	Use of everyday language to communicate findings and ideas.	Use of aspects of scientific language , conventions, representations and text types to communicate findings and ideas	Use of appropriate scientific language , conventions, representations and text types to communicate findings and ideas	Clear and purposeful use of appropriate scientific language, conventions, representations and text types to communicate findings and ideas	Coherent, concise and purposeful use of appropriate scientific language, conventions, representations and text types to communicate findings and ideas.
	Com	Information is plagiarized from internet sources		Most of the scientific information is presented in your own words.		All scientific information is clearly written in your own words.
	Evaluating	Obvious statements of the history of electricity	Statements of the history of electricity which reflect little or inaccurate research.	 The history of electricity with research which includes SOME sources of data and information Reference List 	 Evaluation of the history of the atom with CLEAR research which includes various sources of data and information Reference List (several quality sources) 	Evaluation of the history of the atom which demonstrates CLEAR and ACCURATE research which includes a RANGE of sources of data and information
	Ă					 Reference List (extensive, high quality sources)
	Punctuality	Report is missing, 2+ sections and/or is late by 2+ days		Report is missing, 1-2 sections and/or is late by 1-2 days		Report is submitted in full and <u>on time</u>
					Result:	/25