

Name: _____ Class: _____ Date: _____

Elements Project

To help you learn more about a particular element and familiarize yourself with the Periodic Table of Elements, each scholar will be given an element to research. The project will have both a **written** and a **creative part**. The written portion can be typed or neatly written. Each student will research a different element. **This project is due on MONDAY NOVEMBER 4, 2019. Late projects will NOT be accepted.**

Make use of the following sources to help you:

- Encyclopedia
- Books
- Reliable and accurate websites:
 - <http://www.chemicool.com/>
 - <http://www.webelements.com/atoms.html>
 - <http://education.jlab.org/itselemental/>
 - <http://chemistry.about.com/library/blperiodictable.htm>
 - <http://www.periodictable.com/>
 - <http://www.ptable.com/>
 - <http://www.infoplease.com/periodictable.php>
 - <http://www.rsc.org/periodic-table/>
 - <http://chemmac1.usc.edu/java/ptable/ptable.html>
 - <http://www.colorado.edu/physics/2000/applets/a2.html>
 - <http://theodoregray.com/periodictable/>
 - <http://www.chemicalelements.com/show/name.html>

Writing assignment

The description of the characteristics of your element should approximately 1 to 2 pages.

Paragraph one: Introduction– What is an atom? What is an element? Make sure to address the relationship between an atom and an element. What is the periodic table? What is the name of your element? What is the chemical symbol? What is the atomic number and mass?

Paragraph two: History– What is the history of the element? You might include some of these topics: who discovered your element, when and where and how it was discovered, the importance of the element in the past.

Paragraph three: Element Properties– Describe the physical and chemical properties of the element. You might want to include some of these topics: Physical properties – the forms that they exist in matter (ex. Solid, liquid or gas) with descriptions of each form, the melting point, freezing point or boiling point of the element. Chemical properties– characteristics that determine how it will *react* with other substances or *change* from one substance to another. There is a lot more than you can include in this section.

Paragraph four: Uses of the element– Describe how your element is used. You might include some of these topics: one or more uses, how the element is manufactured, costs of using your element, importance of your element to economies throughout the world.

Paragraph five: Closing– One to two fun and interesting facts you have not yet discussed about your element. Also include what you have learned about elements in general so far based on your research.

Science Poster Rubric – Elements and the Periodic Table

Points	5	4	3	2
Neatness & Organization	Poster is very organized with neat, clear easy to read lettering	Poster is organized and it neat and clear	Poster is somewhat organized and neat	Poster lacks neatness and is disorganized
Content Accuracy	Provides detailed information on the element.	Provides information as it relates to the element.	Provides some but not detailed information on the element.	Provides limited information on the element
Required Elements	The element description had all the required components. Well outlined.	The element description had most of the required components.	The element description had some of the required components.	The element description was limited. Not enough details provided.
Illustrations & Visual Appeal	Neat, clear, creative illustrations relating to topic. Visual is clear and appealing.	Neat, clear illustration relating to topic. Contains good use of color.	Illustrations relating to topic was evident but distract or give a cluttered appearance.	Limited illustrations provided. No visual appeal.
Mechanics Grammar/Spelling	No errors in grammar and/ or spelling	Few errors in grammar and/ or spelling	Some errors in grammar and/ or spelling	Many errors in grammar and/ or spelling