

Assignment Summary

In this assignment, you will research an element of your choice from the periodic table. Using reference materials and Internet sites, you will collect information about the element. Useful references for gathering this information are listed at the end of this document. You will then present your findings in a multimedia presentation, which should include seven slides: a title slide, a slide containing periodic table information, a slide containing physical and chemical properties of the element, a slide containing information on the discovery of the element, a slide containing information about the location of the element and how it is obtained, a slide containing uses of the element, and a works cited slide.

Assignment Instructions

Step 1: Gather materials and necessary information.

- a) You will collect the following information about your element:
- Periodic table information including type of element, atomic number, atomic mass, number of protons, number of electrons, number of neutrons, period number, group number, and group name
 - Physical and chemical properties of the element
 - When, where, and by whom the element was discovered
 - Where the element is found and how it is obtained
 - Uses for the element and/or products made from the element
 - Images of the element
- b) Be sure to keep a list of your references so you can cite them later.
- c) Ask your teacher where you should save your presentation as you work on it. Your teacher may also have specific guidelines about the file name you should use.

Step 2: Create your title slide.

- a) Begin by creating the title slide. On this slide, include the symbol of the element in large font, the name of the element, an image of the element, your name, your teacher's name, and the due date of the presentation.
- b) Remember to save your work as you go.

Step 3: Identify periodic table information.

- a) Create a slide titled **Periodic Table Information**.
- b) On the slide, add this information about the element:
- Type of element (i.e., metal, nonmetal, metalloid)
 - Atomic number
 - Atomic mass
 - Number of protons, number of electrons, and number of neutrons
 - Period number
 - Group number
 - Name of group to which it belongs (i.e., alkali metals, alkaline earth metals, halogens, noble gases, and so on)

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- Step 4: Identify physical and chemical properties.**
- c) Place text in the notes section below the slide explaining the information presented on the slide.
 - This text will act as the script for your presentation.
 - d) Remember to save your work as you go.

a) Create a slide titled **Physical and Chemical Properties**.

b) On the slide, add this information about the element:

- Color
- Odor
- Texture
- State of matter at room temperature
- Melting point
- Boiling point
- Flammability
- Reactivity

- An image of the element illustrating one of these properties
- c) Place text in the notes section below the slide explaining the information presented on the slide.
- This text will act as the script for your presentation.
- d) Remember to save your work as you go.

Step 5: Describe the discovery of your element.

a) Create a slide titled **The Discovery of [insert name of element]**.

b) On the slide, add this information about the element:

Who discovered it

When it was discovered

Where it was discovered

An image of who discovered the element or where it was discovered

- c) Place text in the notes section below the slide explaining the information presented on the slide.
- This text will act as the script for your presentation.
- d) Remember to save your work as you go.

Step 6: Describe the location of the element and how it is obtained.

a) Create a slide titled **Location of [insert name of element] and How It Is Obtained**.

b) On the slide, add this information about the element:

Where the element is naturally found

How the element is obtained and separated from other nearby substances

An image of where the element is naturally found

- c) Place text in the notes section below the slide explaining the information presented on the slide.
- This text will act as the script for your presentation.
- d) Remember to save your work as you go.

Step 7: Describe uses of the element.

a) Create a slide titled **Uses of [insert name of element]**.

Student Guide (continued)

- b)** On the slide, add this information about the element:
- How the element is used
 - What products are made from the element
 - Where the element might be seen or used in everyday life
 - Any environmental concerns about the use of the element
 - An image of a product containing the element being used in everyday life
- c)** Place text in the notes section below the slide explaining the information presented on the slide. This text will act as the script for your presentation.
- d)** Remember to save your work as you go.
- Step 8: Cite your sources.**
- a)** Create a slide titled **Works Cited**.
- b)** On this slide, create a list of the resources you used to complete your research. A simple list of website titles and addresses (URLs) is acceptable. If you used print sources, list the title, author, publisher, city, and date.

Step 9: Evaluate your presentation using this checklist.

If you can check each criterion below, you are ready to submit your presentation.

- Does your presentation include a title slide with the symbol of your chosen element in large font, the name of the element, an image of the element, your name, your teacher's name, and the due date of the presentation?
- Does your presentation include a slide with information about the element from the periodic table, including the type of element, atomic number, atomic mass, number of protons, number of electrons, number of neutrons, period number, group number, and group name?
- Does your presentation include a slide with the physical and chemical properties of the element, including color, odor, texture, state of matter at room temperature, melting point, boiling point, flammability, and reactivity?
- Does your presentation include a slide with information on when, where, and by whom the element was discovered?
- Does your presentation include a slide on where the element is found and how it is obtained?
- Does your presentation include a slide on uses of the element and/or products made from the element as well as any environmental concerns about the element?
- Does your presentation include text in the notes section of each slide that explains the information presented on the slide?
- Does your presentation include an image on each of the slides created in Steps 4, 5, 6, and 7?
- Does your presentation include a works cited slide, including citations for all the sources you used?

Student Guide (continued)

Step 10: Revise and submit your presentation.

- a) If you were unable to check off all the requirements on the checklist, revise your presentation and save it before submitting.
- b) When you have completed your presentation, return to the virtual classroom and use the "Browse for file" option to locate and submit your assignment. Congratulations! You have created a multimedia presentation.
- c) Ask your teacher for further instructions about presenting your presentation to an audience of your peers.

Resources

<http://www.chemicalcool.com/>

<http://www.webelements.com/>

<http://www.chemicalelements.com/>

<http://education.jlab.org/itselemental/>

Multimedia Presentation Rubric



Requirements	Content	Organization	Language and Conventions	Sources
The extent to which all required components are met or exceeded.	The extent to which the topic is addressed using specific, accurate, and relevant details.	The extent to which the presentation demonstrates structure and flow.	The extent to which wording is appropriately chosen, and grammar, punctuation, and spelling are correctly implemented.	The extent to which sources are appropriately chosen and properly cited.
Weight (%)	20	20	20	20
6	<p>Very Effective All requirements are met and exceeded.</p> <p>Good All requirements are met.</p>	<p>Very Effective Demonstrates a well-organized structure and flow. Consistently uses headings or bulleted lists to group related material.</p> <p>Good Demonstrates an organized structure and flow. Often uses headings or bulleted lists to group related material.</p>	<p>Very Effective Demonstrates proper word choice. There are no errors in grammar, punctuation, and spelling.</p> <p>Good Demonstrates good word choice. Few errors in grammar, punctuation, and spelling that do not significantly interfere with communication of content.</p>	<p>Very Effective All source information for facts and graphics is collected and properly cited.</p> <p>Good All source information for facts and graphics is collected, but some of the information is not properly cited.</p>
5	<p>Adequate All requirements are met, but not fully addressed.</p>	<p>Adequate Demonstrates some structure and flow. Content is somewhat disorganized with moderate use of headings or bulleted lists to group related material.</p>	<p>Adequate Demonstrates adequate word choice. Some errors in grammar, punctuation, and spelling that do not significantly interfere with communication of content.</p>	<p>Adequate Most source information for facts and graphics is collected, but some of the information is not properly cited.</p>
4	<p>Limited One requirement was not met.</p>	<p>Limited Demonstrates some evidence of structure with uncertain content flow. Demonstrates limited use of headings or bulleted lists to group related</p>	<p>Limited Demonstrates simple word choice. Several errors in grammar, punctuation, and spelling that may interfere with communication of</p>	<p>Limited Most source information for facts and graphics is collected, but much of the information is not properly cited.</p>

Rubric (continued)

material. content.

<p>Minimal</p> <p>Two requirements were not met.</p> <p>2</p>	<p>Minimal</p> <p>Information about the topic is minimal and/or there are several content errors.</p>	<p>Minimal</p> <p>Demonstrates little evidence of structure with poor content flow. Demonstrates little evidence of headings or bulleted lists to group related material.</p>	<p>Minimal</p> <p>Demonstrates simple word choice. Many errors in grammar, punctuation, and spelling that interfere with communication of content.</p>
<p>Inadequate</p> <p>Three or more requirements were not met.</p> <p>1</p>	<p>Inadequate</p> <p>Information about the topic is incomplete and inadequate, and not sufficiently supported by details. There are 2 or more content errors.</p>	<p>Inadequate</p> <p>Demonstrates no evidence of structure or flow. There is no use of headings or bulleted lists, just a number of facts.</p>	<p>Inadequate</p> <p>No source information for facts and graphics was collected or cited.</p>