

Desktop Publishing & Elements Project-Based Learning Activity

"Thou didst blow with thy wind, the sea covered them: they sank as lead in the mighty waters." Exodus 15:10 KJ

Student Objectives:

The student will be able to

- Use the periodic table of elements to describe atomic structure and grouping of a specific element
- identify, develop, and create a flyer that gives information about specific element using parameters involved

Performance Objective

After completing this activity, you will be able to correctly use the period table of elements in classifying an element to its family, group, as well as describe the atomic number, chemical symbol, and its state at room temperature using desktop publishing to emphasize your knowledge.

Introduction

As you know, everything around you is composed of matter. You have learned that the periodic table of elements lists all the known elements to date. These elements are what make up matter.

Your job is to choose an element and "sell" it through the production of a flyer that demonstrates your knowledge about the element chosen.



Process

1. Using a browser, please go to the following web sites to complete the necessary work:
 - <http://www.uky.edu/Projects/Chemcomics/> :choose an element about which to write.
 - <http://www.webelements.com/> :for actual information on the Element
 - <http://www.chemicalelements.com/show/mass.html> :for the atomic mass and element group-very visual chart
 - <http://www.science.co.il/PTElements.asp?s=Weight> :for the discovery year, electron configuration, atomic weight

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2. Using your knowledge of Word and the topics covered under desktop publishing, please create an advertising flyer for your favorite element character using the following parameters and suggestions.

Remember: You are trying to sell your element character for hire! Please make your flyer in such a way that anyone reading it would know more about the element superhero chosen.

Here are the parameters for your flyer:

- ❑ The Name of your element
- ❑ Description of your element: atomic number, atomic weight, atomic mass
- ❑ To what element group of the Periodic table does your character belong
- ❑ At room temperature, what is the state of your element (one of four choices)
- ❑ The chemical symbol of your element

Other parameters are as follow:

- ❑ 1 inch margins
- ❑ landscape or portrait in design
- ❑ no columns
- ❑ Word Art
- ❑ Page border of your choosing
- ❑ An image file that shows your element superhero
- ❑ Bullets
- ❑ A phone number, fictitious, using a science word such as 1-800-TIN-ROKZ MINIMAL WHITE SPACE...but there has to be a balance...Keep from overcrowding your flyer!

Here is an example of a flyer. KEEP FROM COPYING THIS IN YOUR OWN DESIGN. BE ORIGINAL!

Evaluation & Conclusion

This project will be graded on accuracy and content. Please make sure to follow the checklist above in order to gain the most possible points.



The grading sheet will help you obtain the most possible points!

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Student Name: _____

Class: MS Computer Literacy

	Points Earned	Comments
Produced a Publication	50	
Science Content (20 points)		
Name of element in flyer		
Atomic number and Atomic mass		
Group to which element belongs		
Room temperature state of element		
Chemical symbol		
Desktop Publishing Content (30 pts)		
Margins set correctly (1")		
Word Art included		
Appropriate use of page orientation		
Page border on flyer		
Image file of element superhero		
Bullets used		
A fictitious phone number		
Appropriate placement of objects		
Use of contrast		
Balanced white space		
Final Grade		