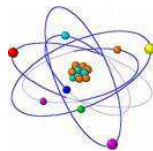


# Element Project

\*L3



Due: Friday, November 18, 2011

**\*\*100 POINTS\*\***

## Brochure Facts

Each fact is worth one point; therefore the maximum value you can achieve is 33 points for the facts that you are required to have in your element brochure.

## Brochure Design (32 POINTS)

1. A tri-fold brochure (**6 points**)
2. Colorful, neat, legible, attractive brochure (**10 points**)
3. The atomic orbital model of the element (third picture in your brochure) (**2 points**)
4. Two pictures of your element (**4 points**)
5. Paragraph on back of brochure about the periodic table (**5 points**)
6. A list of source used under the paragraph on the back page (**5 points**)

**You may use a computer program or complete the brochure by hand. It is also acceptable to type out your information and paste it on the brochure.**

## Atom Model (25 POINTS)

The required model is 3-Dimensional and shows the correct information for your element. Your model needs to include a **nucleus, correct number of protons, neutrons, and electrons, energy levels, and a key** to show what each material/color represents in your model. Your model must be sturdy and organized!

## **BE CREATIVE WITH YOUR MATERIALS!**

### Point Summary

Brochure Facts → 33 points

Brochure Design → 32 points

Atom Model → 35 points

**TOTAL POINTS → 100 POINTS**

<b>ELEMENT FACTS (that need to be included in your brochure) YOU STILL NEED TO FIND 8 MORE FACTS ON YOUR OWN!</b>	
Name of the element	
Symbol of the element	
Atomic Number	
Number of protons	
Number of electrons	
Number of neutrons	
Electron arrangement/configuration in the atom	
Group number and name	
Period Number	
Other elements in the group	
Who discovered the element and when	
Density of the element	
Heat of fusion and heat of vaporization	
Color of the element	
State of matter of the element at room temperature	
Is the element a metal, non-metal or metalloid	
Isotopes of the element	
Oxidation number of the element	
Purchase price of the element (any form)	
Uses of the element (minimum of 4)	1.
	2.
	3.
	4.
Interesting Fact about the element (2 minimum)	1. 2.
<b>PERIODIC TABLE FACTS (included in the Periodic Table paragraph on the back of your brochure)</b>	
What were some of the first elements discovered?	
Around what time were they discovered?	
When was the first periodic table made?	
Who created the modern periodic table?	
Why were there blank spaces in the table?	

# Element and Periodic Table WebQuest Rubric L3

Name: \_\_\_\_\_ Period: \_\_\_\_\_

	Criteria	Points/Comments
Tri-fold Brochure	Is the brochure folded in to three, neat sections?	_____/6
Brochure Design	Is the brochure colorful, neatly made, attractive, etc.? Is the information presented neatly and organized?	_____/10
Picture of the atomic orbital model of the element	Do you have a picture that shows your element's protons, neutrons, and electrons?	_____/2
Two pictures of your element	Pictures are included in brochure.	_____/4
Periodic Table Paragraph	On the back page, do you have a paragraph (atleast 5 sentences) about the history of the periodic table?	_____/5
Bibliography	Did you list all the sources you used on the back page of your brochure?	_____/5
Brochure Facts	Did you include all 33 elements facts?	_____/33
		Total _____/65
Atomic Model Design 3-D	Presented on a sturdy material? Neatly made? Falling apart? Organized?	_____/15
	Correct number of protons, neutron, and electrons?	_____/15
Key	Did you include a key explaining the materials used?	_____/5
Video E.C. (up to 15 pts)		
		Total _____/35

Final Grade: \_\_\_\_\_/100