ICP PROJECT: ELEMENT RESEARCH (Ms. Young)

In chemistry, it is important to communicate what we know and learn in the field. For that reason, you will do a PowerPoint, Google Slide, or Prezi to demonstrate the information you know and learn about one particular chemical element.

This assignment will consist of researching your element, finding 25 facts about your element, and creating a PowerPoint, Google Slide, or Prezi to display the information you find. You may use books, textbooks, and/or the Internet. You will need to include at least 5 pictures of your element or pictures that relate to your element – one picture must be of the Bohr model of your element and another picture must be the Lewis structure of your element.

Your presentation will be shown by the teacher so your classmates can learn about your element.

Schedule for the project:

	Gray Day	Blue Day
Project is assigned	2/14/18	2/15/18
Research Data Sheet Due	2/21/18	2/22/18
Presentation due	2/27/18	2/28/18

<u>Checklist of items</u> : (check them off once you have completed them)					
Data Sheet	Presentation				
Rubric (Grading Scale) for the project:					
25 points for Data Sheet					
25 points for Presentation					
□ Element Name	☐ Element Symbol				
□ Atomic Mass	☐ Atomic Number				
□ Proton Number	☐ Electron Number				
□ Neutron Number	□ Valence Electron				
□ Bohr Model (picture/illustration)	□ Lewis structure (picture/illustration)				
☐ 3 more pictures or illustrations	□ 12 more facts about the element				

Bonus Points Opportunity for this project:

In lieu of making a PowerPoint, Google Slide, or Prezi presentation, you could complete your project on an apron, a t-shirt, or a ThinkPad skin. You could even make a superhero or supervillain. Remember the examples shown in class?

Possible Resource Websites:

http://www.chemicool.com/

http://www.webelements.com/

http://www.chemicalelements.com/

http://periodic.lanl.gov/index.shtml

http://www.lenntech.com/periodic/periodic-chart.htm

http://www.rsc.org/chemsoc/visualelements//pages/pertable_fla.htm

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

http://environmentalchemistry.com/yogi/periodic/

http://www.corrosionsource.com/handbook/periodic/

http://www.heromachine.com If you are going to make an online superhero or supervillain, you can use this site at HOME! Remember, your superhero or supervillain must be clothed appropriately for school.

PICTURES, ILLUSTRATIONS, LANGUAGE (WORDS): All pictures, illustrations, and language (words) MUST be school appropriate! Every single picture and/or illustration and/or word. This includes but is not limited to any superhero or supervillain.

Element Research Data Sheet

Name		
IVALLIC		

I. GENERAL FACTS

A. Terminology

1. Element Name: _____

2. Element Symbol: _____

B. Classification

1. Type: _____ (metal - nonmetal - metalloid)

2. Family Name:

3. Group Number (Column):

4. Period (Row):

PICTURES,
ILLUSTRATIONS,
LANGUAGE
(WORDS): All
pictures,
illustrations, and
language (words)
MUST be school
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illustration and/or
word. This includes
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supervillain.

C. Atomic Notation

1. Atomic Number:

2. Atomic Mass: _____

3. # of Protons:

4. # of Neutrons:

5. # of Electrons:

6. # Valence Electrons: _____

7. Bohr Model: (Draw it below.)

8. Lewis Structure: (Draw it below.)

II. HISTORY

A. Derivation of Name

1. Language: _____

2. Word: _____ meaning _____

B. Discovery

1. Who: _____

2. When: _____

3. Where:

AIN USES 1 2 3 4 ROPERTIES				PICTURES, ILLUSTRATIONS, LANGUAGE (WORDS): All pictures, illustrations, and language (words) MUST be school appropriate! Every single picture and/or illustration and/or word. This includes but is not limited to any superhero or supervillain.
A. Physical Properties 1. Appearance (Color, Text	ure, Hardness)	:		
2. Phase (State) @ Room T	emp:		_ (solid - liqui	d - gas)
3. Density:	g/mL			
4. Melting Point:	oF =	°C =	K	
5. Boiling Point:	°F =	°C=	K	
B. Environmental Properties 1. Chief Source(s): (Obtained from)		(name of roc	k/mineral)	
2. Location of Chief Source	·	(nar	ne of country	y/countries)
3. Cost:	per 100 g	g (pure form)		
4. Environmental or Health	n Concerns			
IQUE/STRANGE FACT				

III. MAIN USES