The Periodic Table of Superheroes and Villains!

For this project you will create a superhero or villain character based on the characteristics of an element of the periodic table. You will research an element (some time will be devoted to this in class) to collect the needed information for this project.

Procedure

**1. Write down your element**:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2. Research the properties of that element.**

A. History of the element (Who discovered it? When was it discovered? How was it discovered?)

B. Physical and Chemical Properties of that element (color, state at room temperature, reactivity, boiling point, freezing point, melting point, malleability, density, ductility, flammability, conductivity, explosiveness, size, hardness, brittleness, etc. There are lots of others I have not listed! Write down anything you think you might be able to use!)

C. Important uses of the element in the real world (AT LEAST TWO!)

**3. Decide if your character is a villain or a superhero.**

**4. Write a one page short story about your character that includes**

A. The character’s name and whether they are a superhero or villain  
 B. The name of the element that gives your character its power and what power the character has because of the element  
 C. The history of the element (Letter A from #2) (Be creative to work it into your story!)  
 D. At least 8 qualities of your character based on the element qualities (Letter B from #2)  
 E. Important uses of the element in the real world (Letter C from #2)(Again, be creative to work it in!)

**5. Draw and color a picture of your element character. You picture should incorporate at least THREE characteristics of your superhero/villain and include the following:**

A. The name of your superhero/villain  
 B. The atomic number, atomic mass, and element symbol of your element should be included in the drawing somewhere.  
 C. List out the three qualities being depicted in your drawing on the back of the picture.  
 D. Make sure your picture corresponds to the qualities of your element.  
 E. Draw and color your picture on a piece of white computer paper.

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| Great Places to Start your Research  Interactive Periodic Table : [www.ptable.com](http://www.ptable.com)  Videos on some of the lower atomic number elements: <http://www.neok12.com/Periodic-Table.htm>  Another Interactive Periodic Table: <http://www.webelements.com/index.html>  Yet Another Interactive Periodic Table: <http://www.chemicool.com/> |