

Periodic Table: It's Elemental....

***Directions:** You will be given an element from the periodic table to research. All of your information will need to fit onto **one PowerPoint slide!** You will print it out on either blue, yellow or green paper, so do not set a background on your slide.*

(5 pts.) 1. Element Symbol

- ✚ Must be done in Word Art
- ✚ Centered at the top of slide

(5 pts.) 2. Element Name

- ✚ Must be done in Word Art
- ✚ Centered under the element symbol
- ✚ Must be smaller than the symbol

(5 pts.) 3. Atomic Number

- ✚ Must be in the upper left corner

(5 pts.) 4. Atomic Mass

- ✚ Must be in the upper right corner

(5 pts.) 5. State if it is a solid, liquid or gas

(5 pts.) 6. State if it is a metal, non-metal or metalloid

(5 pts.) 7. Give "Family Name" or Rare Earth Element Series

(14 pts.) 8. Tell who discovered it and when it was discovered

(14 pts.) 9. Explain how the element is used (must have 2)

(15 pts.) 10. Give physical, chemical properties or unusual facts (must have 3)

(5 pts.) 11. Your name and room number at the bottom

Presentation (each worth 20 points)

- ✚ Neatness (show you care about your work)
- ✚ Legible (must be able to read it)
- ✚ Pictures / Graphics (must have 2)
- ✚ Grammar (must have no spelling errors or grammatical errors)
- ✚ WOW! (impress me with your creativity)

Sample:

118

Uuo

294

Ununoctium

Family Name:

Noble Gases

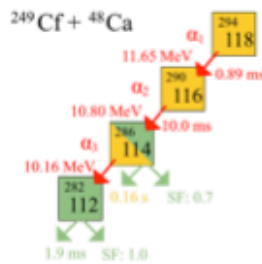
Properties:

- Gas
- Non-metal



Uses:

Element 118 has no uses as only a very few atoms of this element have been identified.



By: Mrs. Adair

Discovery:

It was discovered in 2002 through experiments conducted at Dubna in Russia at the Flerov Laboratory of Nuclear Reactions (by workers from the Joint Institute for Nuclear Research in Russia and the Lawrence Livermore National Laboratory in the USA) that indicated that element 118 (ununoctium, Uuo) was produced.

Facts:

- 1) Earlier, a team of Berkeley Lab scientists announced in 1999 the observation of what appeared to be element 118 but retracted the claim after several confirmation experiments failed to reproduce the results.
- 2) The experiment took 4 months and involved a beam of 2.5×10^{19} calcium ions to produce the single event believed to be the synthesis of element 118 (ununoctium) as the $^{249}118\text{Uuo}$ isotope.
- 3) Robert Smolanczuk of Poland's, calculations suggested that it might be possible to make element 118 by fusing lead with krypton under carefully controlled conditions.