Element Project



This project gives you the opportunity to learn more about an element that interests you. Your job is to research an element of your choice from the Periodic Table. You are graded on the following:

1. Research Notes – You will research your element and take notes on your findings. You need to cite 2 of the resources that you use. The bottom of this page should help get you started.
2. Written Summary and Sketch – Summarize your notes into 2 well-written paragraphs. In addition to your summary, sketch an atom of your element – with all of the parts labeled.
3. 3-Dimensional Model – Create a model that accurately displays the parts of your atom. Use any materials that are available to you (wire, marshmallows, cereal, hardware)
4. Presentation – You will make a short presentation of your model and what you have learned about the element.

*Research Notes*

Chosen element –

Reason for choosing this element-

Periodic Table information:

Symbol

Atomic #

Atomic Mass

# of protons

# of electrons

# of neutrons

Is your element natural or man-made?

Which phase of matter is it normally?

Describe its properties/characteristics –

How is your element used – what can it be found in?

How was it discovered?

What other interesting facts can you find about your atom?

Possible web sites to use:

<http://www.chemicalelements.com/>

http://www.ptable.com/

Element Project Rubric

Research Notes

 10 points element chosen

 Information from Periodic Table complete

 Research notes complete

 7 points incomplete info from Periodic Table

 Incomplete notes

 5 points no info from Periodic Table

 No research notes

Written Summary and Sketch

 20 points 2 paragraphs, neat, no conventions errors, complete sentences

 Paper is organized

 Written in own voice (not cut and pasted from Internet)

 Sketch shows correct atomic particles

 14 points incomplete responses, not in paragraphs

 2 or more convention errors, not written neatly

 Writing unclear and hard to follow

 Inaccurate sketch

 10 points fragmented answers

 Messy, unclear, effort not evident

 Not in your own words (copy and paste evident)

 No sketch

Model

 20 points 3-dimensional model, accurate

 Colorful, unique, attractive, effort evident

 14 points model not 3-dimensional

 Lacks creativity, not accurate

 10 points model messy, effort not evident

 Inaccurate model

Presentation

 10 points student effectively explained information about element

 Student spoke clearly, loudly

 7 points student needed to be prompted as to what to say

 Student’s speaking skills not effective (mumbling, softly speaking, eyes on floor)

 5 points student had difficulty explaining element, weak speaking skills