Element Cube Project

Directions: Collect data about your element using reference materials and internet sites. Construct the element cube. Place the data collected neatly on the 6 sides of the cube following instructions. 2 days class work allowance. Unfinished work is homework.

Grading: 700 points total – project category. 200 points for collecting data on this worksheet. Data collected must be thorough and accurate. 500 points for the completion of the cube. This is based on construction of the cube, placement of data on the cube, following directions, and overall neatness.

Side #1 – Symbol and Name:
1. Symbol of your element (make this large on your cube).
2. Name of the element.
3. Your name and period.

My element:

Element symbol:

Side #2 – Images:
You must have at least two pictures of your element. One picture should be the shell pattern of electrons. The other is your choice. Pictures may be printed out from the Internet or photocopied (you should make them small so they fit on the cube). Important: you must place a caption under each photo. The caption for shell pattern of electrons should say, “Shell pattern of electrons for (name of your element).”

Side #3 – Physical & Chemical Properties of ________________:

Color: Odor:

State of matter at room temperature: Texture:

Density: Flammability:

Melting point: How reactive is it? (Will it combine with other elements?)

Boiling point:

Side #4 – Periodic Table Information:

Type of Element: Period:

Atomic Number: Group Number:

Atomic Mass: Name the family to which your element belongs:
Side #5 – About _____________: 
Provide background history of your element. Who discovered or first identified your element? What country? When?

Where is your element found and how is it obtained? How is your element separated from other materials found with it?

Side #6 – Uses of _____________: 
How and where is your element used? Where do you “bump into” your element in everyday life? (either in its pure form, in compound form, or in mixture form)
Cube Construction:
Use the construction template to outline three parts of the cube (each part has 2 sides). Do not cut and assemble yet! Glue your parts on before you put the cube together. Construct the cube last.

Element Cube Project Template
Everything needs to fit in these text boxes. When done, you can print this out, cut out the squares, and paste it on construction paper. Do not use color unless you plan on printing this at home.
Side #1

Xy
Name of Element

Your Name
Period

Side #2

Pictures of (Element)

You must have at least two pictures of your element. One picture must be the shell pattern of electrons. The other is your choice. Pictures can be easily downloaded from Webelements.com. 

Important: you must place a caption under each photo. The caption for the shell pattern of electrons should say, “Shell pattern of electrons for (name of your element).”
<table>
<thead>
<tr>
<th>Side #3: Physical &amp; Chemical Properties of (Element)</th>
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About (Element)

Uses of (Element)