

Element Cube Project

Name: _____ Period: _____

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: This is a project grade. 100 points total. Data collected must be thorough and accurate. 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.