

Name: _____

Core Hour: _____

Due Date: _____

Element Cube Assignment

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 these instructions. 2 computer days (1 for research/1 for typing) and 1 class work day for cube construction allowance. Unfinished work is homework.

Grading: 38 points total.

10 points for collecting data on this worksheet (data collected must be thorough and accurate).

28 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 (4 points) — Symbol and Name:

1. Symbol of your element (make this large on your cube).
2. Name of the element.
3. Your name and core hour.

My element:

Element symbol:

Side #2 (4 points) — 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 (4 points) — Physical & Chemical Properties of _____:

Some physical properties may include (colorless, odorless, very reactive, nonreactive)

Color:

Boiling point:

Odor:

State of matter at room temperature:

Texture:

Density:

Flammability:

Melting point:

Reactivity:

Side #4 (4 points) – Periodic Table Information:

Type of Element:

Period:

Atomic Number:

Group Number:

Atomic Mass:

Name the family to which your element belongs:

Side #5 (4 points) – 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 (4 points) – Uses of _____:

How and where is your element used? Where do you “bump into” your element in everyday life? Include interesting facts you find out about your element.

Cube Construction: (2 construction/2 overall neatness = 4 points)

Use the construction template provided to outline the 4 inch cube. Cut and assemble cube. Glue or tape your information on the sides of your cube neatly. Turn in!