

Name: _____ Date: _____ Science: _____ #: _____

Instructions for Element Dodecahedron Project

Objective: To create a geometric form (dodecahedron) that has information about an element on each face.

Side 1

- _____ Element's Name
- _____ Element's Pronunciation

Side 2 (Element as it appears on Periodic Table)

- _____ Atomic Number
- _____ Chemical Symbol
- _____ Atomic Mass

Side 3 (Appearance)

- _____ Colored picture or drawing of element at room temperature

Side 4 (Appearance Continued)

- _____ Written description of physical appearance at room temperature

Side 5 (Physical Properties)

- _____ Density
- _____ Melting Point
- _____ Boiling Point
- _____ Specific Heat Capacity

Side 6 (Where it can be found on the Periodic Table)

- _____ Small copy of the Periodic Table with its group and period highlighted or shaded and labeled.

Side 7 (Isotopes)

- _____ How many does this element have?
- _____ List all of them with Chemical Symbol-Mass #
- _____ List or highlight the radioactive isotopes

Side 8 (Chemical Properties)

- _____ Elements it commonly reacts with
- _____ How does it occur naturally? (Alone or combined with what elements)

Side 9 (Purpose)

- _____ How is the element use today?

Side 10 (History)

- _____ Year element was discovered
- _____ Who discovered this element
- _____ Where the element was discovered
- _____ Meaning of element's name

Side 11 (Ion)

- _____ Does it become an ion?
- _____ If so, will it be positive or negative?
- _____ If so, will it gain or lose electrons? How many?

Side 12 (Atomic Diagram)

- _____ Nucleus labeled with the number of protons and the number of neutrons of the most common atom
- _____ Include all energy levels in the electron cloud
- _____ Diagram the valence electrons

Other information:

Each side is worth 8 points. To receive all points for each side, you must include all information for your element and it must be accurate.

The dodecahedron template and a small Periodic Table can be downloaded from onmycalendar.com.

Attach an index card that includes your name (first and last), the date turned in, and your class period. On the back of the index card, include all sources used to get your information in MLA format.

Due Date: **Friday, October 11, 2013**