

My Element Project

Purpose: Create a *tri-fold* brochure that provides detailed information about your element.

Date Due: *Tuesday, February 5*

Layout: Use a single "8 ½ x 11" (or larger) sheet of paper in *landscape* mode. Feel free to use colored paper as a background, but text should be on white paper. Typed in a readable 9-12 point font (fancy fonts okay for headings), or use **black** ball point or *fine-tip* felt pen (make sure it doesn't bleed). Include colorful illustrations or photos.

Side 1: Title (name of element), full name, and class period. Also show atomic symbol, relative atomic mass, and *illustrations* of your element (copy and paste okay).

Sides 2-5: Content (more details below). Use category headings to organize content, and use bulleted lists when relevant.

Side 6: Bibliographic resources. (Provide *at least three* sources of information.) Include more illustrations, if desired.

Content: Use the following subtopic headings.

General Information: Origin of element name, discovery (when, who, how), location on Periodic Table, common isotopes, (note radioactive forms w/half-life)

Physical Properties: classification (metal vs. nonmetal), density, boiling point, melting point, 1st ionization energy, electronegativity, specific heat, heat of vaporization. Valence shell number and number of valence electrons (in neutral atom)

Chemical Properties: Ionic forms, common reactions

Occurrence/Abundance in nature: in earth's crust, on planet in general, in universe (if known). Common natural compounds containing element.

Usage by man/Importance in nature: self-explanatory. Also, how is it purified by man? (techniques used)

Other Interesting Facts: Anything that doesn't fit into above categories.

Alert: Be sure to put all explanations and descriptions in *your own words!*

Point breakdown:

Content: 60 points

Title Page, Bibliography,
Layout and attractiveness: 15 points

Total Points possible: 75 (HW)

(Note: substantial penalties for late and "unassigned element" projects)