

Writing Your Name using Chemical Element Symbols

Objective: In this activity, you will spell your name (name you go by and your last name) using chemical symbols of elements on the periodic table. For example, you can spell Maggie using the symbols for Magnesium (**Mg**), Aluminum (**Al**), Gallium (**Ga**), Germanium (**Ge**), Iodine (**I**), and Europium (**Eu**).

Materials:

- Ruler 8.5 x 11 sheets of copier paper
- Pencil Periodic Table of the Elements
- Colored pencils Computer, Chromebook, or I-pad
- Markers
- Big paper or Poster board

Procedure- Your poster must include:

- The chemical element symbols used to spell your name (name you go by and last name).
 - * If your name has the letter J, use J and the information for Iodine (J was the former symbol for Iodine).
 - * If you are only using the first letter of a two-lettered symbol, still include the second letter, *but fade the letter* so it does not appear that it is used in the spelling (see example at the end of the activity).
- **Box drawings of the symbols as they appear in the periodic table of the elements (including atomic number, atomic mass, symbol, and element's name).** * Each element's box should be at least 5.5 cm wide and 6.5 cm tall on the poster.
- The following information for at least three of the elements you use (nicely printed (or typed) on paper and attached to the bottom of the poster board/paper):
 1. A. Is the element a metal, nonmetal, or metalloid;
b. At room temperature it is a solid, liquid, or gas at room temperature.
 2. Group number and period number where the element is located in the periodic table.
 3. Number of protons, electrons, and neutrons.
 4. At least two physical properties and one chemical property of the element.
 5. At least two common uses of the element.
 6. When was the element discovered and who discovered it.

- The poster should be organized neatly and created in color.
- Presentation of your poster to the class: The presentation should include the information on two of the four elements you chose and the elements' information you found.

Useful websites <http://www.lenntech.com/periodic/periodic-chart.htm>
<http://www.webelements.com> <http://chemicalelements.com/>
<http://www.rsc.org/periodic-table/>

Example For example, if your name was Yvonne Wilson, you could write it using the elements Y, V, O, N, Ne, W, I, Li (notice that the i from the Li symbol is shaded grey since it is not part of the spelling), S, O, and N. Notice that the sizes and shapes of the boxes are different from the instructions given above, in order to fit the space available below

39	23	8	7	10
Y	V	O	N	Ne
ytrium	vanadium	oxygen	nitrogen	neon
88.91	50.94	15.99	14.01	20.18

74	53	3	16	8	7
W	I	Li	S	O	N
Tungsten	Iodine	lithium	sulfur	oxygen	nitrogen
183.8	126.9	6.938	32.05	15.99	14.01