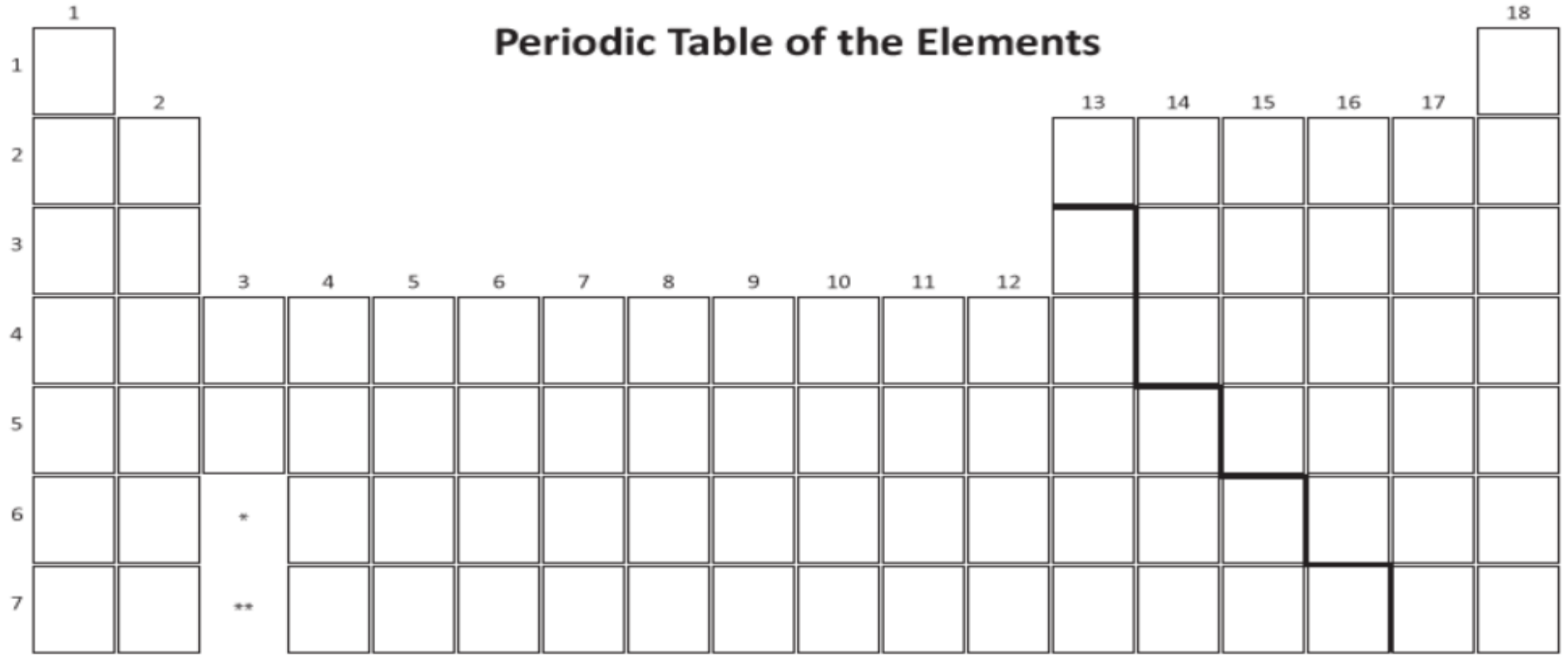
# Periodic Table of the Elements




**Directions: Follow the instruction below, do NOT just copy the periodic table, <u>only do what is below!!!!</u>** Use Google or Text Book

1. Write in all atomic #'s, this represents the amount of protons in the nucleus.
2. Write the symbol for elements that are in the liquid state of matter in their appropriate position in the periodic table.
3. Do the same thing you did for #2, but this time write the symbol for elements that are in the gas state of matter, us a different color.
4. Fill in the color key (color a little bit next to liquid & gas based on what you used for #2 & 3) for states of matter at room temperature.
5. Use a new color to shade in the Alkali Metals, and record it in the appropriate color key.
6. Use a new color to shade in the Alkaline Earth Metals, and record it in the appropriate color key.
7. Use a new color to shade in the Halogens, and record it in the appropriate color key.
8. Use a new color to shade in the Transition Metals, and record it in the appropriate color key.
9. Use a new color to shade in the Metalloids, and record it in the appropriate color key.
10. Use a new color to shade in the other non-metals that are not already shaded, and record it in the appropriate color key.
11. Use a new color to shade in the other metals that are not already shaded, and record it in the appropriate color key.
12. Write the number of Valence Electrons above the group #, for groups 1, 2, 13, 14, 15, 16, 17, 18
13. Label the rows 1-7 "ENERGY levels", highlight this label and the row numbers 1-7
14. Where are all the non-metals located on the periodic table?
15. Where are all the metals located on the periodic table?
16. What seperates the Metals and Non-metals on the periodic table?

**<u>State of Matter @ room Temp.</u>**
*Liquid:*
*Gas:*
*Solid: All Others*

**<u>Periodic Groups "Family"</u>**
*Alkalie Metals:*
*Alkaline Earth Metals:*
*Halogens:*
*Transition Metals:*
*Metalloids:*
*Other Non-Metals:*
*Other Metals:*