

## Periodic Table Assignment-

- Neatness counts
- This is a test grade
- This is the periodic table that you will use on your tests for the rest of the year – make sure to bring it to class daily
- You want to do your best on this!

You will need a copy of chapter 6 for this assignment. Chapter 6 is included as a PDF for you to use. **You are NOT allowed to use the internet.** That would be considered cheating and cheating gets you a test grade of 0.

This is NOT a group assignment. If you have questions, you ask me, not a classmate. Doing so would be considered cheating and will result in a grade of 0 on this test grade.

If you have questions, please email, text or call (651-253-6251). Feel free to take pictures as you work and send them to me to check if you are on the right track. I seriously do not mind at all and would prefer it to you putting in the work and doing it wrong.

**DO NOT** do the assignment in erasable ink. The lamination process will erase all your work!

Some of this you have not heard of before and that is alright, getting the assignment done is what is important, not that you understand it at this time. I will make sure you understand it when you are with me in class.

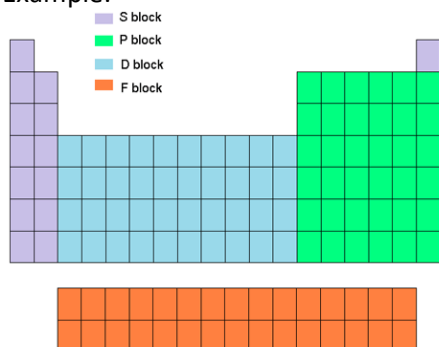
### *Groups and Periods*

1. In the top left corner of your paper, in small print, write the word group with an arrow that represents the direction (horizontal/vertical) a group goes in. In the top left corner of your paper, in small print, write the word period with an arrow that represents the direction (horizontal/vertical) a period goes in.

### *Blocks*

2. Identify the s, p, f, and d block on the periodic table. With a black marker, box in those blocks and label them as the s, p, f, and d block.

Example:



Yours will not be colored the same as this one. However, you should have black marker around the entire purple, blue, green, and orange sections. These are the blocks. Make sure someplace on the side, you have what each block is named.

### *Numbers on the Periodic Table*

3. On your periodic table, above each group, write the group number (you should have numbers between 1-18 listed on your table).
4. On the side of the periodic table, to the side of each period, write the period number including the Lanthanide series and the Actinide series.
5. On the top middle of your periodic table, write the words representative elements. Draw a neat line from the word to the groups that include the representative elements.
6. Write the number of valence electrons for each *representative group* next to the group number in parenthesis. Remember, valence electrons are only for the representative groups, not transition.
7. On your periodic table, for the boxes up to and including Ca, write the name at the bottom of the box.
8. For **ALL** boxes on your periodic table, write the symbol, state at room temp (use the key on the top of the periodic table in the back of your book), atomic number and Atomic mass.
9. Above group 1, write the number +1
10. Above group 2, write the number +2
11. Above group 13, write the number +3
12. Above group 14, write the number +4/-4
13. Above group 15, write the number -3
14. Above group 16, write the number -2
15. Above group 17, write the number -1
16. Above group 18, write the number 0

### *Groups on the periodic table*

17. Right above the d block, in the middle, write *transition elements*. On the left side of the very bottom two rows, write *inner transition metals*
18. On your periodic table, correctly label the Lanthanide series, Actinide series. To do this, put Lanthanide & Actinide right next to their periods.
19. On the very bottom of the periodic table, draw a line that goes from the left side to the right side of the entire paper. In the correct order on the left, right and middle right of the line write the words: most metallic, less metallic, nonmetallic. If done correctly, these words will not be evenly spaced on the bottom of your table.

20. On the periodic table, label these groups: Halogens, Alkaline earth metals, Alkali metals, Noble gases.

*Coloring the Periodic Table*

21. Color the periodic table **exactly** the same way as the periodic table at the end of your book in colored pencil. If you do not have the right colored pencils at home, you can wait and get some from me when we start school.
22. Put in the key at the top **exactly** the same way as the periodic table at the end of your book has it.

Your assignment is due **8/21** so there is time in class to check in on it. I would recommend getting a good start on it this summer. All total, it should take you about 3 hours to complete between reading the information in chapter 6 and writing out the periodic table information.