

Begin class 8/28/17
Finish - tomorrow 8/29/17

Characteristics of the Periodic Table:

1. Number the groups/families on the top of each column.
2. Number the periods to the left of each row.
3. Write the symbols and the atomic number for each element.
4. Draw diagonal stripes in each metalloid element box.
5. Place dots in each non-metal element box.
6. Leave the metal element boxes untouched.
7. Make a key/legend that includes all of the names of the groups.

Alkali metals

Alkaline earth metals

Boron

Carbon

Halogens

Inner transition metals

Nitrogen

Noble gases

Oxygen

Transition metals

8. Shade each group a different color.
9. Indicate the color by each name in the key/legend.
10. Put your full heading at the top of the paper.

Begin: class 8/28
Finish: HW due 8/29

Blank Periodic Table of the Elements

<http://chemistry.about.com>

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The image shows a blank periodic table grid. It consists of 7 rows and 18 columns. The first row has 2 cells. The second row has 2 cells. The third row has 18 cells. The fourth row has 18 cells. The fifth row has 18 cells. The sixth row has 18 cells. The seventh row has 18 cells. The grid is designed to be filled with element symbols and names.

ELEMENT SYMBOLS

Name _____

An element symbol can stand for one atom of the element or one mole of atoms of the element. (One mole = 6.02×10^{23} atoms of an element.)

Write the symbol for the following elements.

- | | |
|-------------------|---------------------|
| 1. oxygen _____ | 11. plutonium _____ |
| 2. hydrogen _____ | 12. americium _____ |
| 3. chlorine _____ | 13. radium _____ |
| 4. mercury _____ | 14. germanium _____ |
| 5. fluorine _____ | 15. zinc _____ |
| 6. barium _____ | 16. arsenic _____ |
| 7. helium _____ | 17. lead _____ |
| 8. uranium _____ | 18. iron _____ |
| 9. radon _____ | 19. calcium _____ |
| 10. sulfur _____ | 20. cobalt _____ |

Write the name of the element that corresponds to each of the following symbols.

- | | |
|--------------|--------------|
| 21. Kr _____ | 31. Cu _____ |
| 22. K _____ | 32. Ag _____ |
| 23. C _____ | 33. P _____ |
| 24. Ne _____ | 34. Mn _____ |
| 25. Si _____ | 35. I _____ |
| 26. Zr _____ | 36. Au _____ |
| 27. Sn _____ | 37. Mg _____ |
| 28. Pt _____ | 38. Ni _____ |
| 29. Na _____ | 39. Br _____ |
| 30. Al _____ | 40. Hg _____ |