

DESIGNER PERIODIC TABLE

Name _____ Period _____

Instructions:

Using the blank periodic table provided. Within each of the blank boxes on the table create a designer periodic table according to the following criteria.

Part A:

Select a color for labeling each of the following groups on the periodic table:

- | | |
|-------------------------------|-----------------------|
| 1. Alkali Metals | 7. Oxygen Family |
| 2. Alkaline Earth Metals | 8. Halogens |
| 3. Transition Metals/Elements | 9. Noble Gases |
| 4. Boron Family | 10. Lanthanide Series |
| 5. Carbon Family | 11. Actinide Series |
| 6. Nitrogen Family | |

Part B:

Create a distinct division line (stair step) between the metals and nonmetals.

Part C:

Design a symbol for labeling each of the groups on the periodic table:

1. Metals
2. Nonmetals
3. Metalloids

Part D:

Design a 2nd simple symbol for labeling each of the following groups on the periodic table:

1. Elements with an Oxidation Number of 1+
2. Elements with an Oxidation Number of 2+
3. Elements with an Oxidation Number of 3+
4. Elements with an Oxidation Number of 4+
5. Elements with an Oxidation Number of 3-
6. Elements with an Oxidation Number of 2-
7. Elements with an Oxidation Number of 1-
8. Elements with an Oxidation Number of 0

Part E:

Select a 3rd simple symbol for labeling each of the following groups on the periodic table:

1. Elements within the "s" block
2. Elements within the "p" block
3. Elements within the "d" block
4. Elements within the "f" block

Part F:

Select simple symbols to show the periodic trends in atom size and ion size.