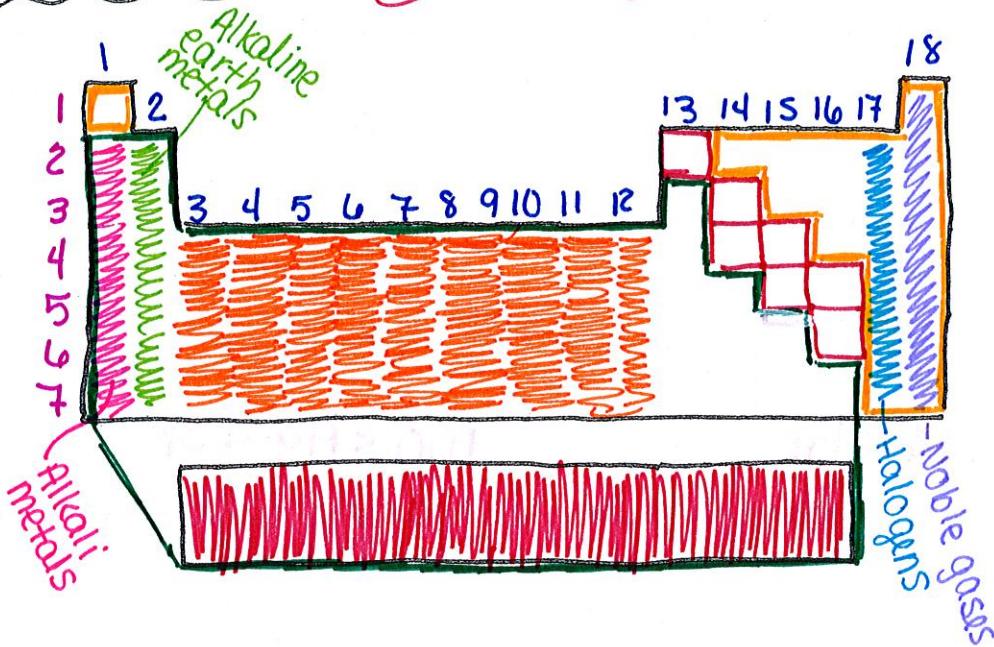


Unit 2 Review

Key



- 1) Number the groups. Define a group Vertical column of elements
 - 2) Number the periods. Define a period. Horizontal row of elements
 - 3) Outline the following (and label): metals, metalloids, nonmetals
 - 4) Label these groups:
 - noble gases Gp 18
 - alkali metals Gp 1
 - alkaline earth metals Gp 2
 - transition metals Gps 3-12
 - inner transition metals bottom 2 rows
 - halogens Gp 17
 - 5) Who is credited for developing the 1st Periodic Table?
How did he arrange his Periodic Table?
by increasing weight, with elements that have similar properties in rows Mendeleev
 - 6) How is the modern Periodic Table arranged?
by increasing atomic number, elements w/similar properties in groups
 - 7) Define:
 - atomic radius
 - ionization energy
 - electronegativity - attraction b/w the nucleus of one atom for the e⁻ on another atom
 - 8) Explain the following trends:
- | atomic
radius | ionization
energy | electronegativity |
|---------------------------------|------------------------|------------------------|
| increases
decreases | decreases
increases | decreases
increases |
| down a group
across a period | | |

Half the distance between
2 nuclei chemically bonded together

9) Use your knowledge of trends to answer these questions.

- which element has a larger atomic radius: Cr or Cu?
- which element has a larger ionization energy: Cr or W?
- order these elements from smallest to largest electronegativity.



- order these elements in decreasing ionization energy.



- order these elements in increasing atomic radius



10) study your answers to the "Hunting the Elements" Documentary.