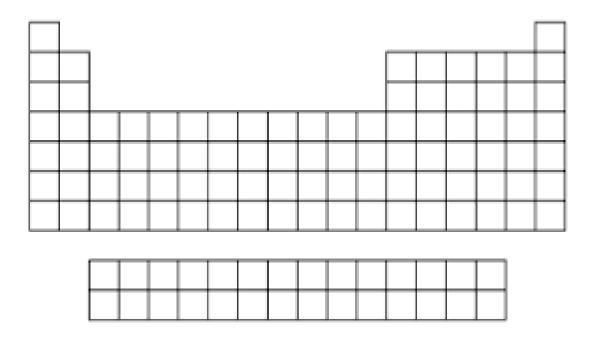
Review sheet

1. Label how the following increase: atomic radius, electronegativity, ionization energy, metal reactivity and nonmetal reactivity.



- 2. Determine the period the following elements are located in?
 - a) Sulfur
 - b) Barium
- 3. Put the following in order of increasing atomic radius:
 - a. Cu, As, Fe, Ti
 - b. K, Na, Rb, Fr
 - c. Au, Ag, Cu,

4. State the group name and describe their properties for group 1, group 2, group 18 and group 17.

Group Number	Group Name	Properties	
Group 1			
_			
Group 2			
-			
Group 17			
Group 18			
_			

6. Identify the elements	below as meta	als, non-metals o	or metalloids
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a. Silicon

d. Strontium

b. Sulfur

e. Antimony

c. Palladium

f. Arsenic

7. Identify the charges (oxidation number) with the positive or negative sign for the following.

a. Calcium

c. Neon

b. Iodine

d. Oxygen

8. Put the following elements in order of decreasing electronegativity

a. F, Be, Li, C

b. Mg, Ra, Sr, Ba

9. What is electronegativity?

10. Put the following elements isa) Kr, Ca, K, Brb) C, Ge, Pb, Sn	n order of increasing ionization energy.
11. Periods on the periodic tab	le represent the number of .
12. Name how many electrons of a. s c. d	can be held in the following sublevels? b. p
13. List an example for each of the	following (just use symbols):
metalloid:	transition metal:
very reactive metal:	stable nonmetal:
group 16:	actinides:
p-block element:	alkaline earth metal:

14. Write the full, orbital, noble gas electron configurations and Lewis dot diagram for the following substances:

Element	Electron	Noble gas	Orbital	Lewis Dot
	Configuration	Configuration	Diagram	Diagram
Arsenic				
Magnesium				

- 15. Which type of wave has more energy than infrared but less energy than x-rays?
- 16. How are wavelength and frequency related?

17.	In each of the following pairs, circle the one with a longer wavelength:		
a	. Violet or green	b. Infrared or visible	
c	. Ultraviolet or gamma	d. Radio or x-rays	
e	e. Green or microwaves		
18. foll	Using the Bohr model, pred lowing drop occurs:	ict the color of light emitted when the	
a	n = 6 to n = 2	b. $n = 3$ to $n = 2$	
19.	Using the Bohr model, deter	rmine the wavelength and type of energy	

c. n = 6 to n = 3

released when the following drop occurs: Type of Energy Wavelength a. n = 2 to n = 1b. n = 3 to n = 2_____