AP Chem Summer Review Guide

•	List the th	ree subat	omic par	ticles an	d their d	charges:
	1					

2. _____

3. _____

• Fill out the following table:

Symbol	Atomic #	Atomic Mass	Protons	Neutrons	Electrons
K					
Ca					
Br					
Ва					

• Fill in the following table:

Orbital Type	Number of Orbitals
S	
	3
D	
	7

 Draw the orbital diagram for S
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- Draw the orbital diagram for Gallium:
- Draw the lewis dot structures for the following elements:

Po Fr TI

- Write out the electron configuration and the abbreviated electron configuration for Ru:
- Write out the electron configuration and the abbreviated electron configuration for Al.

• Write out the electron configuration and the abbreviated electron configuration for As.

CO ₂	CCI ₄
Name:	Name:
Valence electrons:	Valence electrons:
Shape:	Shape:
OF ₂	SCl ₂
Name:	Name:
Valence electrons:	Valence electrons:
Shape:	Shape:
NCI ₃	H₂S
Name:	Name:
Valence electrons:	Valence electrons:
Shape:	Shape:

^{**} Make sure you are reviewing your notes! This is why I wanted you to take them :) Do not copy! The purpose of this is to help you remember what we learned last semester

• Naming ionic and molecular compounds \rightarrow first determine the <u>type of bond</u> so you can use the correct rules for naming/formula writing:		
	0	Iron (III) oxide
	0	Sodium phosphate
	0	Dinitrogen pentoxide
	0	Sulfur trioxide
	0	Magnesium bromide
	0	Carbon monoxide
	0	Ammonium sulfide
	0	Copper (II) carbonate
	0	Carbon tetrachloride
	0	Magnesium sulfide
	0	LiCO3
	0	NO2
	0	CuBr
	0	(NH ₄) CI
	0	K ₃ (PO ₄)
	0	NO2
	0	N2O4