	Name: Koy Block: Chapter 2 - 2.3
÷	Using Bohr Models
	1. What is represented in shells around the atom in Bohr models? <u>Energy levels</u>
	2. What are Bohr models used for?
	- To show what energy level each e occupies
	- To show what energy level each & occupies - to show & available for rxrs -> valence &
	3. How many electrons can fit in the first shell? 4. How many electrons can fit in the second shell? 5. How many electrons can fit in the third shell? 6. How many electrons can fit in the fourth shell? 7. How many electrons can fit in the fifth shell? 8. Consider an atom of Magnesium. How many electrons are represented in the first shell? How many electrons are represented in the second shell? How man electrons are represented in the third shell? 2 How man electrons are represented in the third shell?
	9. When atoms form an ion, describe the outer shell of that ion. The outer shell of the otom is FULL
	10. Consider the periodic table. What group of elements has one valence electron? Alkali Metals
	11. Consider the periodic table. What group of elements has 7 valence electrons? Alkaline Earth Metals

12 Draw the following bohr models:

12. Draw the tollowing bon't models:							
Chlorine P= 17 e= 17	Boron P= S e= S	Flourine p=9 e=9	Nitrogen p=3				
(6)	(8)	(F)					
Oxygen P= 8	Beryllium pe 4	Magnesium pe 12	Lithium 🚌 3				
0:5		e=n	e=3				
	Be						
Calcium p= 26	Phosphorus P= 15	Aluminum p= 13	Neon para				
e = 70	C= 15	(A))	e: 10				

13 Draw the following bohr diagrams (NOTE THEY ADE TONIS)

13. Draw the following bohr diagrams (NOTE THEY ARE TONS)							
Be 2+ p=4 e=2	Cl-1 p=17 e=19	F-1 p=9 e=10	N3- 6= 1 6= 10				
[Be]]2+			[(0)]3-				
Ca2+ p= 20 p= 18	K+1 P=19 e=19	Na+1 p= 11 6= 10	02- p= 8 e= 10				
[(CO)]24	CO) I+						
Mg2+ p=12 e=10	Be2+ p= ==	52-p=16 e=18	Li+1 p=3 e=2				
(mg)	- GONE		[(i)]2+				

14. Draw the following compounds (remember that these compounds must become ions before they are bonded to each other)

Compound	Bohr Model	- ·
NaCl	· ·	and the state of t
KF	The state of the s	
BeO		
MgS		

15. If a new element has seven valence (Outer) electrons, which column of the periodic table should it be placed in?

7th column -> transition metals

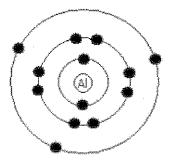
16. If a new element that has two outer electrons is discover, in which column or group should it be placed in?

Alkaline earth metals

17. Do noble gases make ions? Why or why not?

No! They already have a full atter shell

18. Consider the following diagram

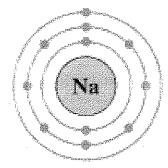


n	number	of	protons	in	Αl
u.	number	01	hi o i ous	111	711

- b. number of shells
- c. number of electrons
- d. Atom or Ion
- e. Number of valence electrons

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in the second

19. Consider the following diagram:



- a. number of protons in Al
- b. number of shells
- c. number of electrons
- d. Atom or Ion
- e. Number of valence electrons

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atom	
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20.	Tell	me	a	50	word	short	story	about	atoms	2
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