

1	H
2	Be
Li	Mg
Na	Mg

### Drawing Lewis Dot Diagrams for ATOMS

Complete the periodic table with Lewis-Dot Diagrams

14	15	16	17	18
C	N	O	F	He
Si	P	S	Cl	Ne
Ar				

1. Compare the LD diagrams for the Alkali metals. What do you notice? Hint: look at the number of "lonely" electrons
2. Compare the LD diagrams for the Halogens. What do you notice? Hint: look at the number of "lonely" electrons
3. Look at the rest of the groups and compare the LD diagrams. Write a generalization of the trends in B-R diagrams for the periodic table.
4. Group 13 was omitted from this sheet. What would the LD Diagrams for boron and aluminum look like? Draw them!

1	
H	
2	
Li	Be
Na	Mg

## Drawing Lewis Dot Diagrams for IONS

Complete the periodic table with Lewis-Dot Diagrams for Ions

13	14	15	16	17
B	C	N	O	F
Al	Si	P	S	Cl

1. Compare the LD diagrams for the ions formed in Group 1. What do you notice? Hint: look at the charge
2. Compare the LD diagrams for the ions in Group 17. What do you notice? Hint: look at the charge
3. Look at the rest of the groups and compare the LD diagrams for the other ions. Write a generalization of the trends in B-R diagrams for the periodic table. Hint: look at the LAST ring and the number of electrons on it.