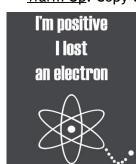
Warm Up: Copy the definitions from the board.



- i.PERIODIC
- ii.PERIOD
- iii. GROUP
- iv. Identify the element found in Group 16 and Period 3 Identify the element found in Period 5 and Group 3

Valence Electrons

Elements are arranged in Groups on the Periodic Table based on their ______ properties

This includes how the elements will react in nature and what other elements they will or will not react with.

For example, the elements in Group 1 react very similarly with _____ and often form positive ions.

An element's Chemical Properties are determined by their number of

Definitions

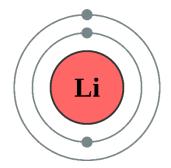
Valence Electrons

Example - Li: 2 - 1

Na: 2 - 8 - 1

K: 2-8-8-1

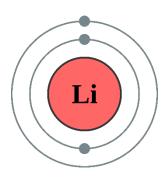
Kernel Electrons



Example - Li: 2 - 1

Na: 2 - 8 - 1

K: 2-8-8-1



<u>Lewis Dot Diagrams</u>	
Just to make sure you remember howDraw the Bohr Diagram for Chlorine	
Sure, that wasn't that bad. Now, what if I asked you to draw the Bohr Diagram for <u>Francium</u> which has 87 electrons??	
The electron configuration is Fr: 2 - 8 - 18 - 32 - 18 - 8 - 1	
Because the electrons are the ones that determine a <i>IMPORTANT</i> electrons, it's not always necessary to draw a complete representation.	
Lewis Dot Diagrams	
If you aren't sure how many valence electrons there are, look at your Regents Periodic Table for the element's ground state electron configuration. The number is the number of valence electrons.	

Identify an element that is similar to _____

Element	# val. e-	Lewis Dot Diagram	Element	# val. e-	Lewis Dot Diagram
Н			0		
Cl			Rn		
Fr			Au		

Match the following elements with their Lew element.	vis Dot Diagrams	below. X rep	oresents a rai	ndom
i. Strontium				
ii. A group 16 element	• •		• •	•
iii. A Noble Gas	:X:	X :	χ.	٠X:
iv. Aluminum	(1)	(2)	(3)	(4)