



Lewis Structures

If H_2O is the formula for water, what is the formula for ice? H_2O cubed.

- Valence electrons
- Bohr-Rutherford Diagrams vs. Lewis Structures
- Drawing Lewis Structures
- Shortcut to drawing Lewis Structures



Group	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	H																	
2	Li	Be																
3	Na	Mg																
4	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5	Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6	Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7	Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Uup	Lv	Uus	Uuo
Lanthanides			57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	
Actinides			89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	

Preview File

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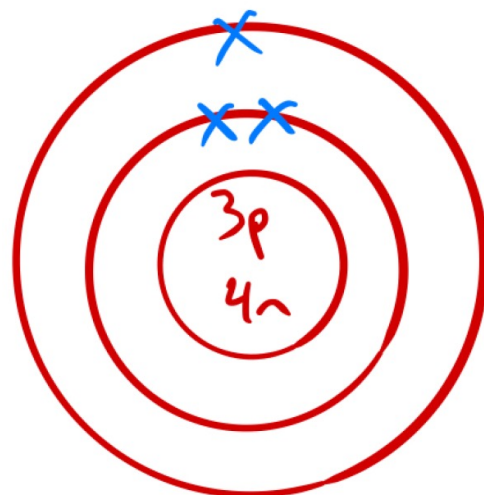
- Some slides appear blank because they have been removed
- Student versions have portions of the text removed which is given in the teacher version and appear as _____ which the students are to fill in
- Other slides may have on them, this represents writing that has been removed on this sample

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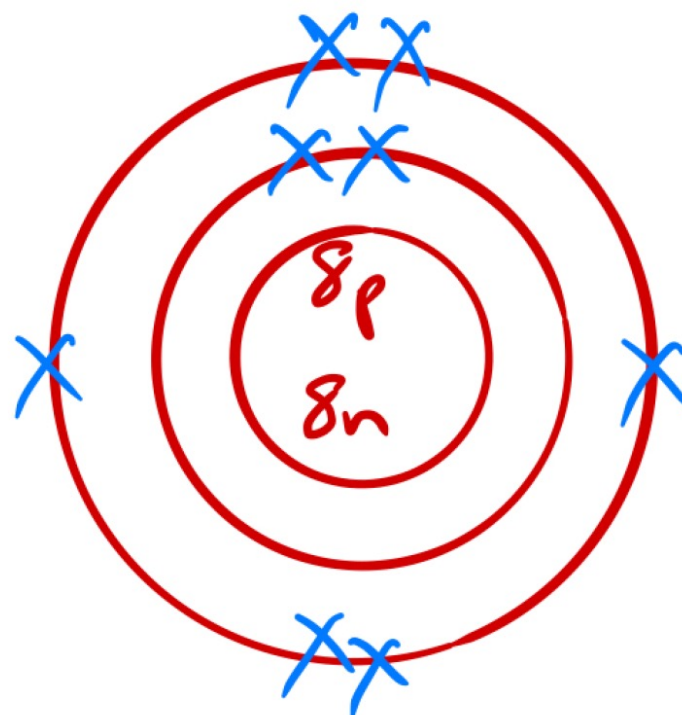


Valence Electrons

E.g.



Li



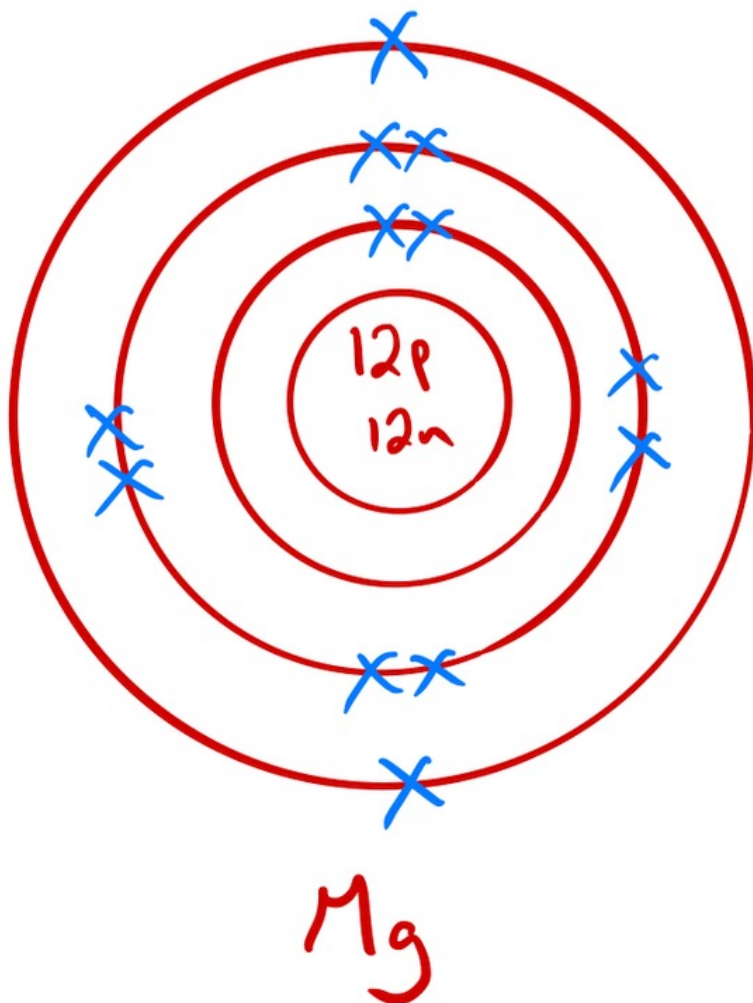
O

Lewis Structures

- When atoms form compounds, valence electrons are the ones that are involved in the bonding
- Valence electrons are the electrons found in the

- _____

BR Diagrams vs. Lewis Structures



Bohr-Rutherford Diagram

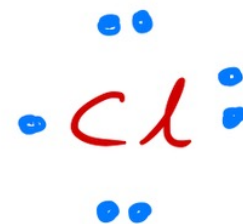
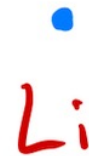
Lewis Structure

Rules

- Symbol
- The symbol is assumed to have 4 sides, and the electrons in the outermost energy level are placed as dots on the four sides
- _____

How do we know the number of Valence Electrons an atom has?

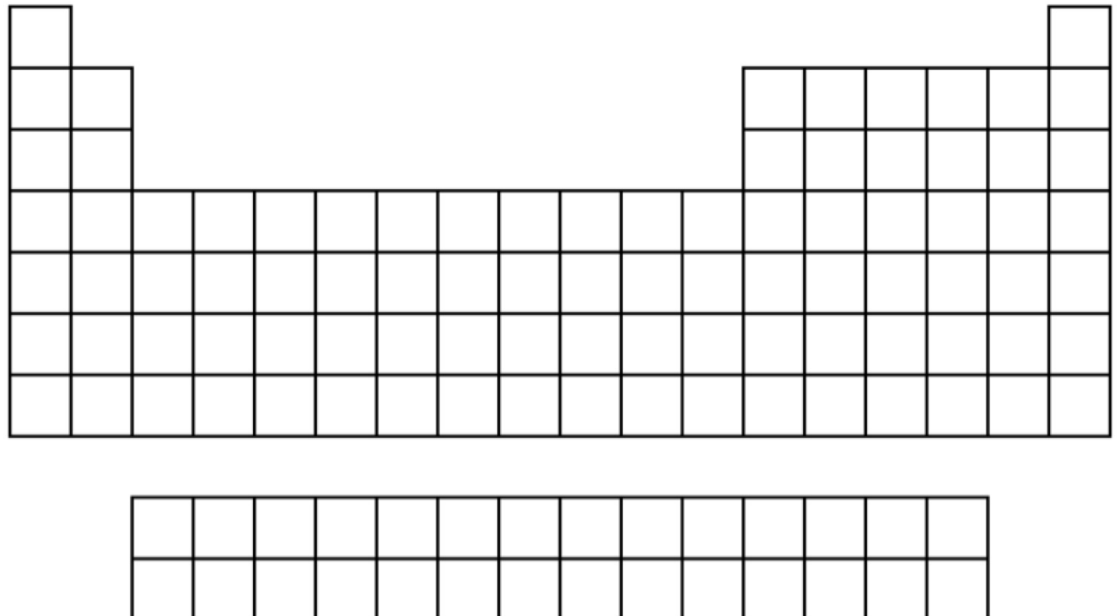
- Valence electrons are the electrons in the _____
- _____
- What is the shortcut to finding the number of valence electrons?



Shortcut

- Find the

-



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Check Your Understanding

Draw the Lewis Structure for the following:

Be

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