Periodic Table

Elements are organized by

1						n	um	ber													
2. how many										are in the outer shell											
3. by which									_ is their												
(or the that electrons are added to).																					
Columns tell us how many														are in the outer shell							
Rows tell us how many there are.																					
The	ato	mic	nu	mbe	er te	ells	us h	ow	maı	ıy _								an a	iton	n ha	ıs.
											roup										
			II											III	IV	v v	VI	VII	VIII	VIII	
	1	1 H	1 H																2 He		
	2	3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne		
	3	11 Na	12 Mg							13 Al						15 P	16 S	17 CI	18 Ar		
Period	4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	11		
Per	5	37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe		
	6	55 Cs	56 Ba	*	72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 TI	82 Pb	83 Bi	84 Po	85 At	86 Rn		
	7	87 Fr	88 Ra	**	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Uut	114 Fl	115 Uup	10 .	117 Uus	118 Uuo	1	
	8	119 Uun																			
		* Lanthanic			ides	57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu	
					ides	89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr	
		Al	kali met	tals	Alkaline earth metals				Lanthanides Actinides				Tra	Transition metals							
		Р	oor met	als	Metalloids				Nonmetals Halogens Noble						Noble ga	pases					
	State at standard tempurature and pressure Atomic number in red: gas Atomic number in blue: liquid Solid border: at least one isotope is older than the Early dashed border: at least one isotope naturally arise from isotopes are older than the earth										`			al eleme	ents and	d no					
	Atomic number in blue: liquid dotted border: only artificially made isotopes (synthesis)											inienc e	ement	٥)							

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Periodic Table

Elements are organized by

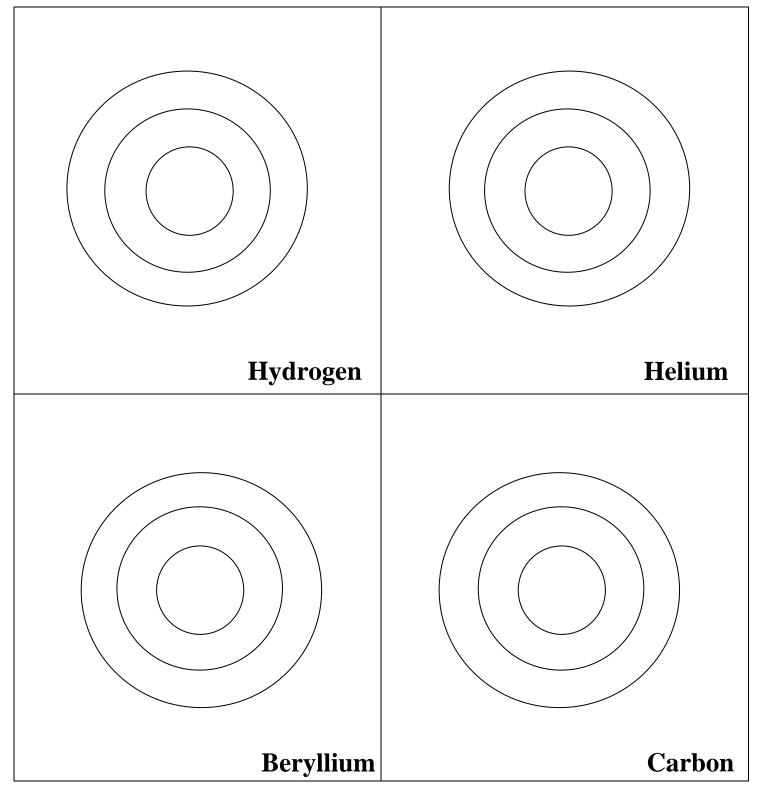
- 1. atomic number
- 2. how many electrons are in the outer shell
- 3. by which shell is their valence shell (or the shell that electrons are added to).

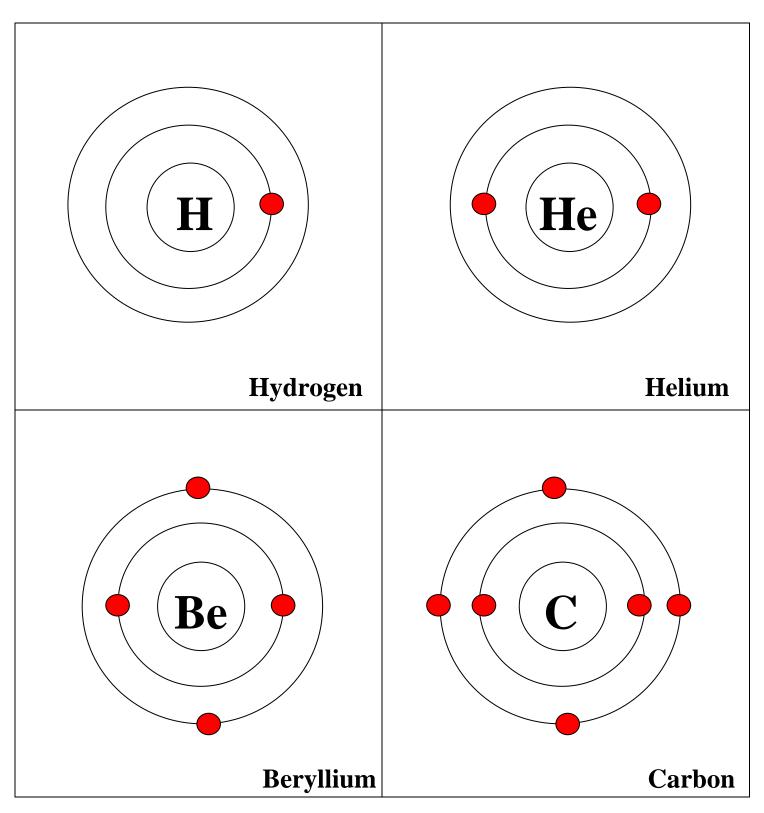
Columns tell us how many atoms are in the outer shell.

Rows tell us how many shells there are.

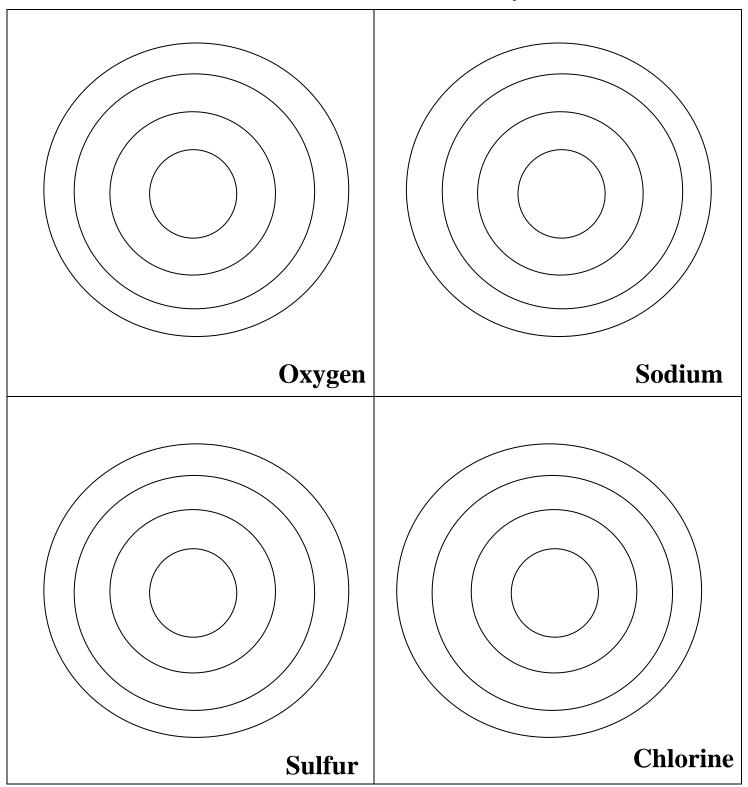
The atomic number tells us how many electrons an atom has.

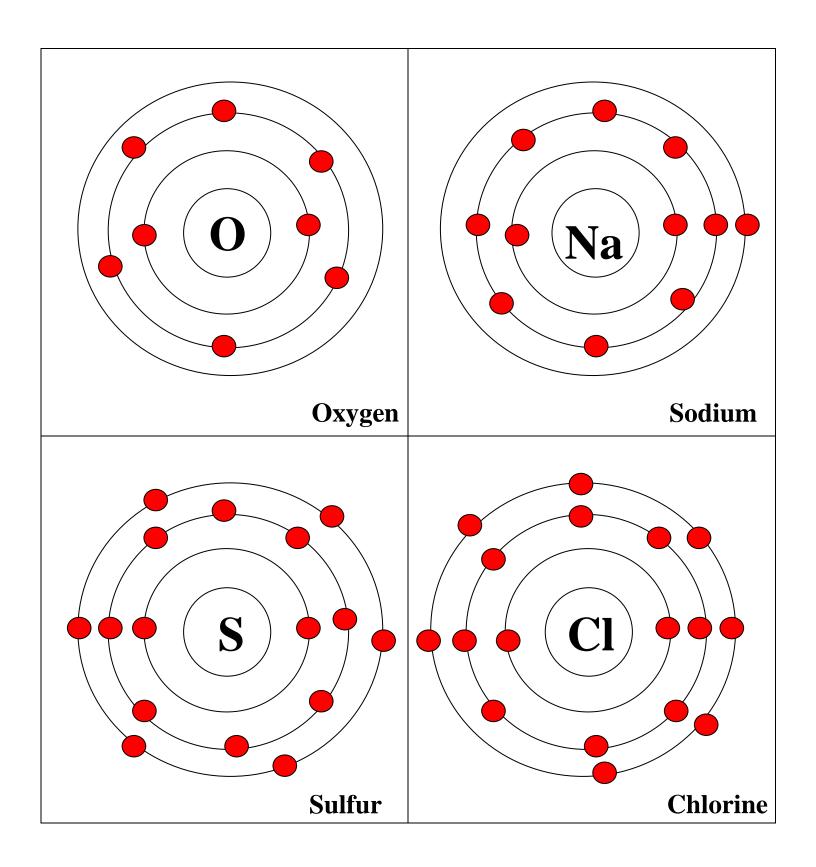
- 1. Find your element on the periodic table. Write the element's symbol in the nucleus.
- 2. Find which row your element is in. This is how many shells your element will have.
- 3. Look at the atomic number of your element on the periodic table. This is how many electrons you will draw.
- 4. Remember, there are two electrons in the first shell, up to eight electrons in the second shell.





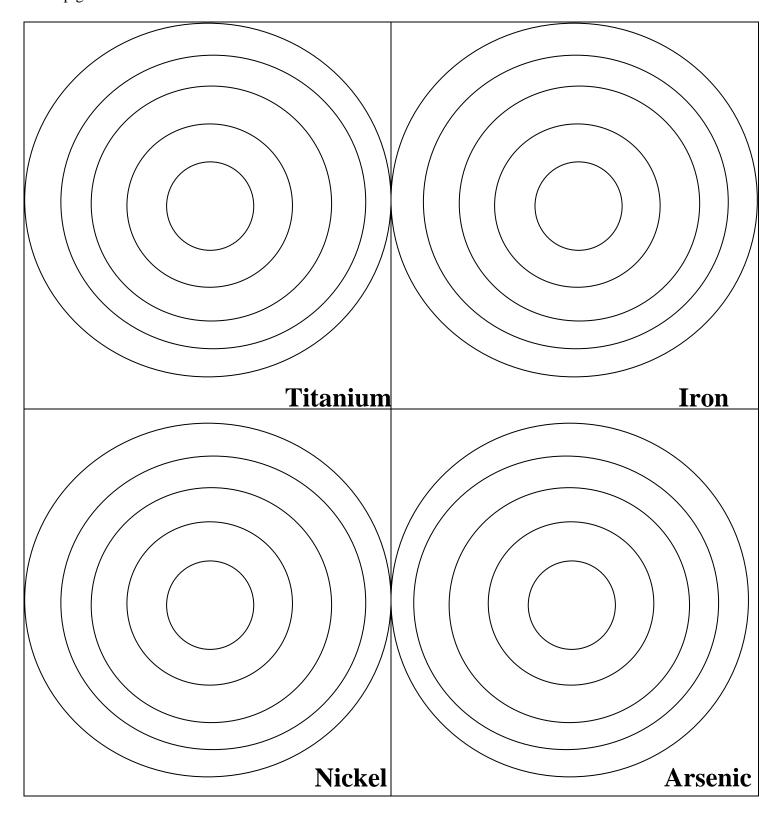
- 1. Find your element on the periodic table. Write the element's symbol in the nucleus.
- 2. Find which row your element is in. This is how many shells your element will have.
- 3. Look at the atomic number of your element on the periodic table. This is how many electrons you will draw.
- 4 Remember, there are 2 electrons in the first shell, 8 electrons in the second shell, up to 8 electrons in the 3rd shell.





Bohr Diagram - Transition Metals

- 1. Find which row your element your element is in. This is how many shells your element will have.
- 2. Look at the atomic number of your element on the periodic table. This is how many electrons you will draw.
- 3. The column will tell you how many electrons are in your outmost shell. Electrons in the Transition Metal Group get added to the 2nd to last shell.



Bohr Diagram - Transition Metals

