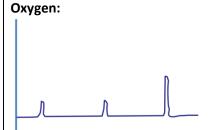
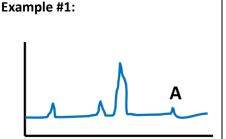
UNIT #5 – Atomic Structure and Periodicity – Glue Ins

In backwards order so you can cut them off the packet each day :-)

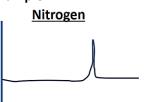
N19

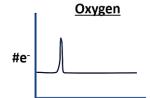






Example #2:

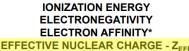


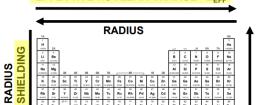






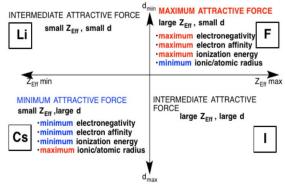
N18

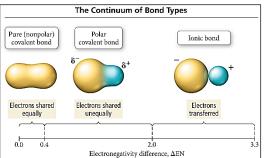






Element	IE ₁	IE ₂	IE ₃	IE ₄	IE ₅	IE ₆	IE,
Na	496	4560					
Mg	738	1450	7730		Core e	electrons	
Al	578	1820	2750	11,600			
Si	786	1580	3230	4360	16,100		
P	1012	1900	2910	4960	6270	22,200	
S	1000	2250	3360	4560	7010	8500	27,100
CI	1251	2300	3820	5160	6540	9460	11,000
Ar	1521	2670	3930	5770	7240	8780	12,000





N16

de B	roglie Equation	Bohr Equation (72)
1	$=\frac{h}{}$	$E = -2.178 \times 10^{-18} J\left(\frac{Z^{-1}}{r^{2}}\right)$
1	mv	Z = nuclear charge
m=	particle mass	n = energy level

$$\frac{\frac{\text{Energy Change}}{\text{Between Two}}}{\frac{\text{Energy Levels}}{\text{Energy Levels}}} E = -2.178 \times 10^{-18} J \left(\frac{Z^2}{n_{final}^2} - \frac{Z^2}{n_{initial}^2} \right)$$

N17

