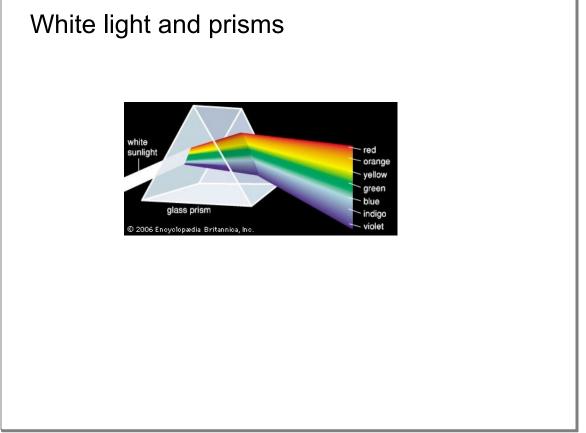
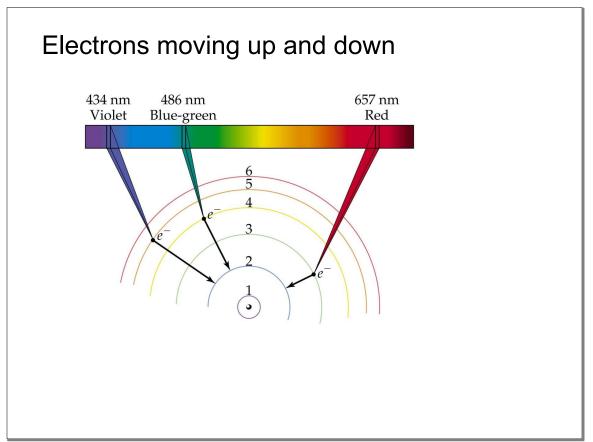


LO: Students will be able to explain emission spectrums and periodic trends.

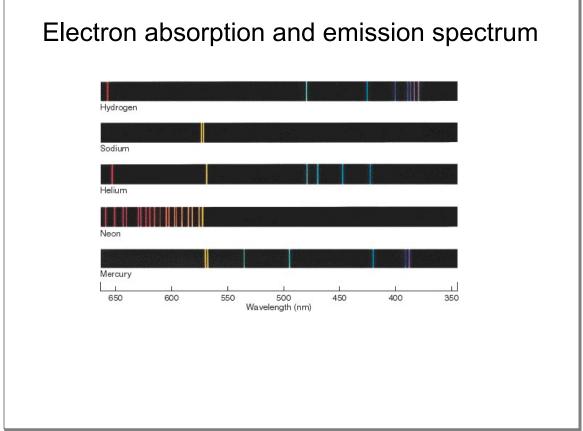
DOL: Students will correctly answer at least 4/5 questions pertaining to emission spectra and periodic trends.



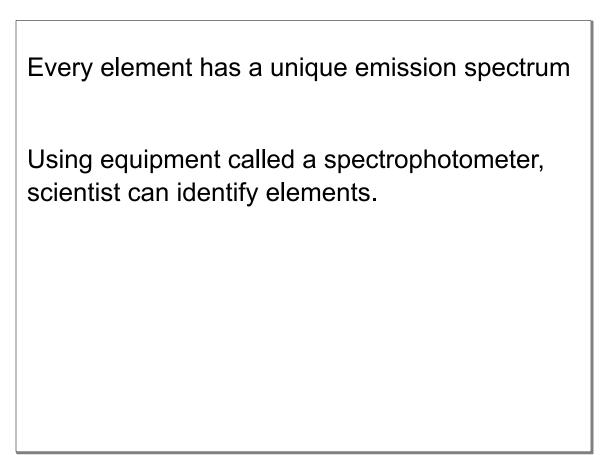
## Sep 29-8:07 AM



Sep 29-8:05 AM



## Sep 28-3:31 PM



## Periodic Trends

Elements in the same period or group can be compared to one another to determine specific properties.

Some of these properties include atomic radius, ionization energy, electronegativity, and electron affinity.

Oct 9-7:30 AM

Atomic Radius defined

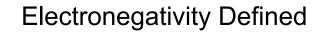
-typical distance from the center of the nucleus to the boundary of the surrounding cloud of electrons.



-amount of energy required to remove the most loosely bound electron of an isolated gaseous atom to form a cation.

Oct 9-7:38 AM

Element	I	I <sub>2</sub>	I3	L4	$I_5$	$I_6$	I7
Na	496	4560					
Mg	738	1450	7730				
Al	578	1820	2750	11,600			
Si	786	1580	3230	4360	16,100		
Р	1012	1900	2910	4960	6270	22,200	
S	1000	2250	3360	4560	7010	8500	27,100
C1	1251	2300	3820	5160	6540	9460	11,000
Ar	1521	2670	3930	5770	7240	8780	12,000



- measure of the tendency of an atom to attract a bonding pair of electrons.

Oct 9-7:41 AM

Element	Symbol	Atomic number	Approximate atomic radius (pm)	Pauling Electronegativity	
Fluorine	F	9	50	3.98	
Oxygen	0	8	60	3.44	
Nitrogen	N	7	65	3.04	
Carbon	С	6	70	2.55	
Silicon	Si	16	110	1.90	
Phosphorus	P	17	100	2.19	
Sulfur	S	18	100	2.58	
Chlorine	CI	17	100	3.16	
Hydrogen	Н	1	75	2.20	
Lithium	Li	3	145	0.98	
Na	Na	11	180	0.82	

Complete the assignment in Google Classroom.

Oct 9-8:13 AM

http://www.gpb.org/files/pdfs/gpbclassroom/chemistry/ periodicTableTrendsWkst.pdf

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