Name KE	Unit 4: Periodic Table
1 Langelouife	Classify each of the following elements as metals (M), nonmetals (NM), or metalloids (MTLD).
1. I can classify elements as metals, nonmetals, or metalloids based on	MTLD B M K M Li N C N Ar
their placement on the	MILD Sb N H M Fe M Au MAU S
Periodic Table.	N F MTLD Si M Fr N He Rn
	MTLD Ge M AI MTLD AS M BI W I
	Group 1 is called the
2. I can state the group names for elements in groups 1, 2, 17, and 18.	Group 2 is called the <u>Alkaline Farth</u> . Group 17 is called the <u>Halbaens</u> .
	Group 18 is called the Noble gase.
3. I can explain why elements in the	Elements in the same group have similar chemical properties because Same # of Valence
same group have similar chemical properties.	Electrons
4. I can explain why the elements in Group 18 don't usually react with other elements.	Elements in Group 18 don't usually react with other elements because THEY HAVE OF FULL VAIENCE SHELL
5. I can state the names/symbols for the two elements on the Periodic Table that are liquids at STP.	The two elements that are liquids at STP are: Menury and Broming

6. I can state how the	The elements on the Periodic Table are arranged by increasing
elements on the Periodic Table are arranged.	Atomic Number # of protons
7. I can list the 7 diatomic	The seven diatomic elements are:
elements.	BrINCIHOF
	<u>Definitions:</u>
	electronegativity
	An atoms athaction
	for electrons
	first ionization energy
	tow much energy it takes to remove a vatence e
	to remove a vatence e
	- to make it an ion
	atomic radius
8. I can define electronegativity, first ionization	distance from nucleus
energy, atomic radius, ionic radius,	to outer ring of electrons
metallic character, and activity/reactivity.	
	distance from nucleus
	distance month occided
	to outer ring of an
	jon !
	metallic character the much like a metal
	HOW MUCH TING SCITION
	the element is -Shiny, conclustive,
	addition, reactivity
	How quick our atom reacts forms bonds
	reacts forms bonds

9. I can state	As one reads down a group from top to bottom, electronegativity
the periodic trend for electronegativity and	decrewed because increased
explain why it occurs.	Sheilding (more Shells or P.E.Ls)
	As one reads across a period from left to right, electronegativity
	increases # of protons
	increases, increasing attraction
	and "greed" for electrons.
10. I can state	As one reads down a group from top to bottom, first ionization energy
the periodic trend for first ionization	decrease in creased
energy and explain why it occurs.	# of energy levels (shells) shielding
	As one reads across a period from left to right, , first ionization energy
	increases because more protons
	Smaller radius, more attractive.
11. I can state	As one reads down a group from top to bottom, atomic radius
the periodic trend for atomic radius and	increase increased
explain why it occurs.	number of energy levels.
	As one reads across a period from left to right, atomic radius
	docrease # of positive
	protons increases attractive pull

12. I can state the periodic trend for metallic character and explain why it occurs.	As one reads down a group from top to bottom, metallic character Increase increased # Of Shello
	As one reads across a period from left to right, metallic character Across a period from left to right, metallic character because
13. I can state the trend for activity/reactivity for METALS as one reads down a group.	As one reads down a group from top to bottom, the activity/reactivity of METALS
14. I can state the trend for activity/reactivity for NONMETALS as one reads down a group.	As one reads down a group from top to bottom, the activity/reactivity of NONMETALS De Crecuseo. Moving away from F. (Shells)
15. I can explain how loss or gaining of electrons affects the radius of an element.	Metals tend to lose electrons (get oxidized). This loss of electrons causes cations to be Small of than the original atom. Nonmetals tend to gain electrons (get reduced). This gain of electrons causes anions to be Large of than the original atom.
16. I can list 10 properties of metals.	10 properties of metals are: Shiny -Lose e-form cations - ductile -hard -conduct heat - highmentin -solid at room temp - conduct electr. -malleable
17. I can list 8 properties of nonmetals.	Eight properties of non metals are: -dull - gaine - Lowmelting pt - Brittle - Soft - Low conductivit -gas - Formanions