Name	Key

## **Chapter 6 Review - The Periodic Table**

1.	the	ho is famous for making the periodic table? He periodic table arranged today?  Mendeleev created the table  Muss. Today. They are	le		
2.	Identify each as a metal, nonmetal, or metalloid.				
	a.	semiconductorMd	f.	poor conductor of heat	
	b.	hydrogen/W	g.	berkelium (#97)	
	c.	antimony (#51)	h.	malleable	
	d.	shiny	i.	most common type of element	
	e.	conducts electricity			
<ol> <li>4.</li> </ol>	What gets added to an atom every time you go down a column to the next row of the periodic table? How does this affect the attraction between the electrons and the nucleus?				
5.	An energy level is added. This increases shielding and decleases the attraction between electrons and the What gets added to an atom every time you go across a row to the next element on the nucleus? Proton is added. This increases nuclear				
	270	V		tion between electrons and the	
6.	W	hat are the periodic trends in atomic radius and neverses going down because	d wha	at are the causes of these trends?	
7.	Ar	range the following in order of increasing atom	of mic r	Mulear charge adius: Tc(#43), Rb (#37), and Ag (#47)	
8.		hich of these has the shortest radius: He (#2),			

He

a.	ion Charged particle				
b	cation_positive ion				
c.	anion regative ion				
10.	Which has a larger radius; Neutral Mg atom, or Mg <sup>2+</sup> ion? Why?				
	Mg is larger than Mg2 because Mg has more electro				
11.	Which of the following has a larger radius: Neutral O atom, or O <sup>2-</sup> ion? Why?				
	02 is larger than 0 because 02 has more electrons				
	Define ionization energy. What is the periodic trend for ionization energy? Explain the easons why.				
	there's veguired to remove an electron				
-	Incleases Left to Right due to nuclear charge				
_	Decreases top to bottom due to shielding.				
13. Which of these elements has the largest ionization energy: C (#6), N(#7), O(#8), F(#9)					
	F				
1	Define electronegativity. What is the periodic trend for electronegativity? Explain the easons why.				
- A	bility of an atom in a molecule to attract				
1	lections to irseit, (Noblegases have no electronerativity)				
-7	ncreases L top due to nuclear chage - Decleases top to bottom blog				
15.	Which elements have no value for electronegativity?				
16.	Which of these elements has the largest electronegativity: S(#16), Cl(#17), Se(#34), Br(#35)				

9. Define: