Name	Date	Hour
	Periodicity Worksheet	
	v states that the physical and chemical sir atomic humber.	## # # # # # # # # # # # # # # # # # #
	e periodic table is called a(n)oe	rist and
each vertical column is calle	or _	tamily.
3. Each period of the period ends with a(n)	ic table begins with a(n)AIKali_	Metal and
4. What is the major factor r	esponsible for the chemical propertie	es of an element?
# of Val	ence elections	
5. Why do elements in a ver	tical column have similar chemical pr	roperties?
Same #	of valence electron	9
	of the alkali metals increase with incre	
	f the halogens decrease with increasing	
8. As the atomic number inc	creases across a period, the atomic rad	lius <u>accress</u> .
	creases down a column in the periodic	table, the atomic radius
	omes a positive ion, its radius	
11. As a non-metal, such as	fluorine, becomes an ion, its radius _	inercases.
12. What factor has the grea occupied energy levels?	ter influence on atomic radius – nucle	ear charge OR the number of
13. In terms of chemical rea	ctivity, differentiate among metals, ne	
	pornets & Metalo m bigger to easier	are reactive the and are cure to love e- to have reactive to they are cure to gain e-
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	easier t	a dan e

14. In each of the following pairs, select the one that would have the larger radius.						
a) O	or S	b) O or F	c) O^{-2} or	· (Cl ⁻¹)		
d) Cl	or Cl	e) Na ⁺ or F ⁻				
15. Indicate the column numbers for the following:						
a)	a) What family of elements reacts with O_2 to produce compounds with the general formula M_2O_3 ?					
b)	b) What family of elements reacts with Cl ₂ to produce compounds with the general formula MCl?					
c)	What family of elements is given the name halogens?					
d)	What family of elements	ents is given the name	alkali metals?	<u>:A</u>		
e)	What family of elements reacts with H_2O to produce compounds with the general formula $M(OH)_2$?					
16. Circle the most reactive in each group of three:						
a) Ca) Al Si	b) B Be Li	c) Be M	g Ca		
d)F	Cl Br	e) Li Na K	f) K Ca	a Ga		

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