## 4.3 Representative Groups Honors Integrated Science Problem Set

Name	Per Date
Use the onli questions.	ine reading on Representative Groups to help you answer the following
	Determine if the following statements are true or false. Place T for true and F following provided.
1. Hyd	drogen is an alkali metal.
2. Alk	cali metals are found only in compounds.
3. Sor	me alkali metals can float on water.
4. Cal	lcium is an alkali metal.
5. The	ere is just one group of transition metals.
6. Ma	any of the actinides do not occur in nature.
7. Ele	ements in the oxygen group have eight valence electrons.
8. Sel	lenium is an alkaline Earth metal.
9. The	e halogen group includes only gases.
10. No	oble gases are found only in combination with other elements.
Multiple-Ch	oice: Write the letter of the correct choice on the line provided.
1.	Elements in group 1 include
	hydrogen.
b.	
C.	. alkaline Earth metals.
d.	. two of the above
2	Alkali metals are
	. soft.
b.	5
C.	<b>,</b>
d.	. all of the above

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Name		Per Date	
3.		Which statement about alkaline Earth metals is true?	
_		They are more reactive than alkali metals.	
		They are always found combined with other elements.	
	C.	Some of them are liquids at room temperature.	
	d.	They are all gold in color.	
4		Transition metals tend to	
	a.	be shiny.	
	b.	boil at low temperatures.	
	C.	be very soft.	
	d.	be extremely reactive.	
5.		The only nonmetal in the carbon group is	
	a.	nitrogen.	
	b.	boron.	
	C.	carbon.	
	d.	oxygen.	
6		Halogens form salts when they combine with	
	a.	alkali metals.	
	b.	alkaline Earth metals.	
	C.	transition metals.	
	d.	all metals.	
7		Nobles gases are	
	a.	colorless.	
	b.	odorless.	
	C.	reactive.	
	d.	two of the above	

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Name_		Pe	er Date				
Match	each definition with the correct to						
Terms	a. alkali metal	b. alkaline Earth m	etal c. halogen				
d. nobl	e gas e. transition metal	f. group	g. actinide				
Defini	itions						
	1. column of elements in the periodi	c table					
2. element in group 18 of the periodic table							
3. metal in group 1 of the periodic table							
	4. radioactive transition metal						
	5. metal in group 2 of the periodic ta	ible					
	6. metal in group 3 of the periodic ta	ible					
7. nonmetal in group 17 of the periodic table							
Fill in the blank with the appropriate term on the line provided.							
1.	Elements in the same	c	f the periodic table have the				
	same number of valence electrons.						
2.	The most reactive of all metals are		metals.				
3.	All alkaline Earth metals have		valence electron(s).				
4.	The lanthanides are metals known	as	metals.				
5.	Groups 13–16 of the periodic table	all contain one or mo	ore				
	·						
6.	The most reactive nonmetals belon	g to the group called	the				
	·						
7.	The least reactive elements are in t	he group called the					