## THE PERIODIC TABLE WEBQUEST!!

Answer the questions on the following pages using the information on the websites provided.

## ON THE SHOULDERS OF GIANTS

## **CLICK HERE**

	the following table using info		
Scientist	Contribution to the	e development of the pe	riodic table
Greek thinkers			
Lavoisier			
John Dalton			
Doberiner			
Dechancourtois			
Cannizaro			
Newlands			
Meyer			
Mendeleyev			
Moseley			
Seaborg			
	1		
GETTING THE	LAY OF THE LAND:	PERIODICALLY (	ORGANIZED
	Click here to lea		
1. Why are the eleme	nts placed in specific places		
2 D	41	4.	
2. Periods are	that run from	_ to	
3. Elements in the s	ame period have the same	.1 .11 C	
4. Every element in	the first period has	snell for its	Every element in
the second period	inas for its	See the patt	ern?
5. Groups are	that run from	to	.1 .
6. The elements of a shell.	ame period have the same the first period has for its that run from a group have the same num	ber ofin	their
7. Every element in	group one has	electron in its outer shell	. Every element in
group two has	electrons in its	s outer shell.	
8. Hydrogen is spec	ial because it can act like to	wo groups,	and .
9. Hydrogen someti	mes is	an electron and sometim	nes it has an
(		-	
	has only elect	trons in its outer shell, it	is grouped with
elements that hav	re	, .	
11. The green elemen	nts on this table are called _	elements.	They each have

two electrons in their outer shell.

## GETTIN" TOGETHER WITH THE FAMILIES!!!!

Use this site to fill in the blanks below: http://chemicalelements.com/

12.	Cli	ick on Alkali Metals (left bar) and answer the following questions.		
	a.	What is the group number?		
	b.	Are these metals reactive?		
	c.	Do these metals occur freely in nature?		
	d.	How many electrons are in their outer shell?		
	e.	What are the three characteristics of ALL metals?		
	f.	Are these metals soft or hard?		
	g.	Name the two most reactive elements in this group? and		
	h.	What happens when they are exposed to water?		
13.	Cli	ick on Alkaline Earth Metals (left bar) and answer these questions.		
a.	Wł	What is the group number?		
b.	Ar	e these metals reactive?		
c.	Do	these metals occur freely in nature?		
d.		ow many electrons are in their outer shell? (Hint: It's the same as their oxidation umber or group number.)		
14.	Cli	ick on Transition Metals (left bar) and answer these questions.		
a.	Но	w many elements are in this group?		
b.	Wł	nat are the group numbers? through		
c.	Wł	nat are valence electrons?		
d.	Beo	cause the valence electrons are present in more than one transition metals en exhibit several common		
e.	Na	me the three elements in this family that produce a magnetic field,		
		, and		

15.	Click on Other Metals (left bar) and answer these questions.
a.	How many elements are in this group?
b.	What are the group numbers? through
c.	How are these other metals similar to the transition metals?
	How are these metals different than the transition metals?
e.	List three physical properties of these other metals.
f.	What are the oxidation numbers for this group?
16.	Click on Metalloids to answer these questions.
a.	On your periodic table, draw the black stair-step line that distinguishes metals from nonmetals.
b.	Metalloids have properties of both and
c.	Define semiconductor
d.	Name two metalloids that are semi-conductorsand
e.	This property makes metalloids useful inand
17.	Click in Nonmetals to answer these questions.
a.	What are the group numbers? through
b.	List four characteristics of ALL nonmetals.
c.	What two states of matter do nonmetals exist in at room temperature?
d.	The nonmetals have noand do not
e.	What are the oxidation numbers of the nonmetals?
18.	Click on the Halogens (left bar) to answer these questions.
a.	What is the halogen group number?
b.	Are halogens metals or nonmetals?
c.	The term "halogen" means and compounds containing halogens are called
d.	How many electrons are in their outer shell?
e.	What is their oxidation number?

f.	What states of matter do halogens exist in at room temperature?
19.	Click on Noble Gases (left bar) and answer these questions.
a.	What is the group number?
b.	Why were these gases considered to be inert or stable?
c.	What is their oxidation number?
20.	Click on Rare Earth Elements (Inner Transition) (left bar) and answer these questions.
a.	On you periodic table, label the Lanthanide and Actinide series with your pencil.
b.	How many Rare Earth elements are there?
c.	Define trans-uranium.
d.	The Rare Earth metals are found in groupand periodsand
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