

Periodic Table: Virtual Lab Document



Part 1:

Follow the instructions in the Periodic Table Virtual Lab Lesson to color the periodic table.

Click on the image below -> edit -> drop down arrow beside the line -> select tool -> change colors.

H																		He
Li	Be											B	C	N	O	F	Ne	
Na	Mg											Al	Si	P	S	Cl	Ar	
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr	
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe	
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn	
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Uun	Uuu	Uub							
		La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu		
		Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr		

Part 2: Go to chemicalelements.com.

1. Click on Alkali Metals (left bar) to answer the following questions:

- What is the group number? [1]
- Are these metals reactive? [Yes, they are highly reactive]
- Do these metals occur freely in nature? [No, they don't occur freely in nature, but they are found in various minerals.]
- How many electrons are in their outer shell? [1]
- What are the three characteristics of ALL metals? [Shiny luster, good conductors of heat and electricity, malleable and ductile.]
- Are these metals soft or hard? [soft]
- Name the two most reactive elements in this group? [Potassium and Sodium]
- What happens when they are exposed to water? [They react vigorously with water, producing hydrogen gas and an alkaline solution. The reaction can be violent and can even ignite the hydrogen gas produced.]

Periodic Table Grouping Lab Answer Key

**United States. National Aeronautics
and Space Administration**



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