

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

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Periodic Table Grouping Lab Answer Key:

Scientific and Technical Aerospace Reports ,1995 *Laboratory Manual for Principles of General Chemistry* J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don't write experiments A student's scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition's experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment's Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section **Biennial Report** Illinois. Office of the Superintendent of Public Instruction, 1927 *Annual Report* Argonne National Laboratory. Division of Biological and Medical Research, 1965 Annual Report to Congress U.S. Atomic Energy Commission, 1972 *Activity report* Brookhaven National Laboratory. National Synchrotron Light Source, 2005 Biennial Report of the Superintendent of Public Instruction, State of Illinois Illinois. Office of the Superintendent of Public Instruction, 1927 Biennial Report of the Superintendent of Public Instruction of the State of Illinois Illinois. Office of the Superintendent of Public Instruction, 1927 *Subject Index to Unclassified ASTIA Documents* Defense Documentation Center (U.S.), 1960 **Biennial Report of the Superintendent of Public Instruction of the State of Illinois for the Years ...** Illinois. Office of the Superintendent of Public Instruction, 1927 *Technical Report - Massachusetts Institute of Technology, Research Laboratory of Electronics* Massachusetts Institute of Technology. Research Laboratory of Electronics, 1953 eBook: General, Organic and Biological Chemistry 2e SMITH, 2012-02-16 eBook General Organic and Biological Chemistry 2e **CSU-FDA Collaborative Radiological Health Laboratory Annual Report** Collaborative Radiological Health Laboratory, 1976 Contains reports on ongoing investigations being conducted by the Laboratory for its long term study of the mortality morbidity and physiopathology of beagles exposed to a single low dose of ionizing radiation in utero or early in life CSU-FDA Collaborative Radiological Health Laboratory Annual Report , 1979 Contains reports on ongoing investigations being conducted by the Laboratory for its long term study of the mortality morbidity and

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