

GRAPHING TRENDS OF THE PERIODIC TABLE

CHEMISTRY

NAME: _____

DATE: _____

PERIOD: _____

Graphing Periodic Table Trends

Directions: Using the provided graph paper, graph each of the elemental properties using a line graph. Place the property on the Y-axis and the Atomic number on the X-axis. Draw a dark, solid, vertical line on each graph where each row on the periodic table ends, (i.e. after atomic number 10). Use the graphs to analyze the trends in these properties and to answer the questions on the back.

Atomic Radius (pm)							
Lithium - 3	152	Sodium - 11	190	Potassium - 19	243	Rubidium - 27	265
Beryllium - 4	112	Magnesium - 12	145	Calcium - 20	194	Strontium - 28	219
Boron - 5	87	Aluminum - 13	118	Gallium - 31	136	Indium - 49	156
Carbon - 6	67	Silicon - 14	111	Germanium - 32	125	Tin - 50	145
Nitrogen - 7	56	Phosphorus - 15	98	Arsenic - 33	114	Antimony - 51	133
Oxygen - 8	48	Sulfur - 16	88	Selenium - 34	103	Tellurium - 52	123
Fluorine - 9	42	Chlorine - 17	79	Bromine - 35	94	Iodine - 53	115

Ionization Energy (kJ/mol)							
Lithium - 3	520	Sodium - 11	496	Potassium - 19	419	Rubidium - 27	403
Beryllium - 4	900	Magnesium - 12	738	Calcium - 20	590	Strontium - 28	550

Atomic Radius



Graphing Periodic Trends Physical Science Answer Key

Kathy Dodds Tyner



Graphing Periodic Trends Physical Science Answer Key:

Chemistry in the Community (ChemCom) American Chemical Society, 2011-06-17 Touted as the most successful NSF funded project published Chemistry in the Community ChemCom by the American Chemical Society ACS offers a meaningful and memorable chemistry program for all levels of high school students ChemCom covers traditional chemistry topics within the context of societal issues and real world scenarios Centered on decision making activities where students are responsible for generating data in an investigating analyzing that data and then applying their chemistry knowledge to solve the presented problem The text is intensively laboratory based with all 39 of the investigations integrated within the text not separate from the reading With the ChemCom program students learn more organic and biochemistry more environmental and industrial chemistry and more on the particulate nature of matter than other textbooks all within the relevance of solving problems that arise in everyday life Meticulously updated to meet the needs of today's teachers and students the new sixth edition of ChemCom adheres to the new science framework as well as the forthcoming next generation of science standards Incorporating advances in learning and cognitive sciences ChemCom's wide ranging coverage builds upon the concepts and principles found in the National Science Education Standards Correlations are available showing how closely aligned ChemCom is to these and other state standards

Atlas of Knowledge Katy Borner, 2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of Atlas of Science describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In Atlas of Knowledge leading visualization expert Katy B rner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science *U.S. Government Research & Development Reports*, 1970

Junior Graphic Mavis Kitcher (Mrs), 2002-07-03

Government Reports Announcements & Index, 1970

Mathematical Reviews ,2007 **Laboratory Exercises for Preparatory Chemistry** Kathy Dodds Tyner,1994-06
 Laboratory Exercises for Preparatory Chemistry is the perfect complement to a one semester preparatory chemistry laboratory course Tyner s manual emphasizes the application of chemistry and the principles of science to everyday life The labs are directly applicable to the real world and often contain supplemental assignments that illustrate an application
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