

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 20). 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	295
Beryllium - 4	112	Magnesium - 12	145	Calcium - 20	194	Strontium - 28	219
Boron - 5	87	Aluminum - 13	175	Gallium - 31	136	Indium - 40	156
Carbon - 6	67	Silicon - 14	111	Germanium - 32	125	Tin - 50	145
Nitrogen - 7	55	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	119

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 Lab Answer Key

Katrin Zwirglmaier



Graphing Periodic Trends Lab Answer Key:

Laboratory Manual Jo A. Beran,1990 **Computer Based Projects for a Chemistry Curriculum** Thomas J. Manning,Aurora P. Gramatges,2013-04-04 This e book is a collection of exercises designed for students studying chemistry courses at a high school or undergraduate level The e book contains 24 chapters each containing various activities employing applications such as MS excel spreadsheets and Spartan computational modeling Each project is explained in a simple easy to understand manner The content within this book is suitable as a guide for both teachers and students and each chapter is supplemented with practice guidelines and exercises Computer Based Projects for a Chemistry Curriculum therefore serves to bring computer based learning a much needed addition in line with modern educational trends to the chemistry classroom

Prentice Hall Chemistry ,2000 **Prentice Hall Science Explorer** Michael J. Padilla,2002 *Chemistry* McGraw-Hill Staff,2001-07 *The World of Chemistry* Jones,Jones Staff,1996 **Nuclear Science Abstracts** ,1971

U.S. Government Research & Development Reports ,1970 **Government Reports Announcements** ,1970

Government Reports Announcements & Index ,1994-10 *Bibliography of Scientific and Industrial Reports* ,1970-05 EPA Publications Bibliography ,1982 **MAA Notes** ,1983 *Exemplary Programs in Introductory College Mathematics* Susan S. Lenker,1998 This handbook contains a collection of the winning entries in the first INPUT Competition part of the INPUT Innovative Programs Using Technology Project The INPUT Project was designed to improve instruction by recognizing and rewarding college instructors who rethought the mathematical content of their introductory mathematics courses with innovative uses of technology The targeted introductory mathematics courses were developmental mathematics precalculus business mathematics and introductory statistics **Japanese Technical Periodical Index** ,1987

Government Reports Announcements & Index ,1988 Nature Sir Norman Lockyer,2004 The Periodical Monitor and Abstract Service ,1961 Includes author and subject indexes NASA SP. ,1983 **Japan Telecommunications** ,1988

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