

Reference Tables for Physical Setting/EARTH SCIENCE

Radioactive Decay Data

RADIOACTIVE ISOTOPE	DISINTEGRATION	HALF-LIFE (years)
Carbon-14	$^{14}\text{C} \rightarrow ^{14}\text{N}$	5.7×10^3
Potassium-40	$^{40}\text{K} \rightarrow ^{40}\text{Ar}$ $^{40}\text{K} \rightarrow ^{40}\text{Ca}$	1.3×10^9
Uranium-238	$^{238}\text{U} \rightarrow ^{206}\text{Pb}$	4.5×10^9
Rubidium-87	$^{87}\text{Rb} \rightarrow ^{87}\text{Sr}$	4.9×10^{10}

Specific Heats of Common Materials

MATERIAL	SPECIFIC HEAT (Joules/gram • °C)
Liquid water	4.18
Solid water (ice)	2.11
Water vapor	2.00
Dry air	1.01
Basalt	0.84
Granite	0.79
Iron	0.45
Copper	0.38
Lead	0.13

Equations

$$\text{Eccentricity} = \frac{\text{distance between foci}}{\text{length of major axis}}$$

$$\text{Gradient} = \frac{\text{change in field value}}{\text{distance}}$$

$$\text{Rate of change} = \frac{\text{change in value}}{\text{time}}$$

$$\text{Density} = \frac{\text{mass}}{\text{volume}}$$

Properties of Water

Heat energy gained during melting	334 J/g
Heat energy released during freezing	334 J/g
Heat energy gained during vaporization	2260 J/g
Heat energy released during condensation	2260 J/g
Density at 3.98°C	1.0 g/mL

Average Chemical Composition of Earth's Crust, Hydrosphere, and Troposphere

ELEMENT (symbol)	CRUST		HYDROSPHERE	TROPOSPHERE
	Percent by mass	Percent by volume	Percent by volume	Percent by volume
Oxygen (O)	46.10	94.04	33.0	21.0
Silicon (Si)	28.20	0.88		
Aluminum (Al)	8.23	0.48		
Iron (Fe)	5.63	0.49		
Calcium (Ca)	4.15	1.18		
Sodium (Na)	2.36	1.11		
Magnesium (Mg)	2.33	0.33		
Potassium (K)	2.09	1.42		
Nitrogen (N)				78.0
Hydrogen (H)			66.0	
Other	0.91	0.07	1.0	1.0

2011 EDITION

This edition of the Earth Science Reference Tables should be used in the classroom beginning in the 2011–12 school year. The first examination for which these tables will be used is the January 2012 Regents Examination in Physical Setting/Earth Science.

Eurypterus remipes

New York State Fossil



Earth Science Reference Table Workbook Answers

Hussin A.Rothana



Earth Science Reference Table Workbook Answers:

CliffsTestPrep Regents Earth Science: The Physical Setting Workbook American BookWorks Corporation, 2008-06-02 Designed with New York State high school students in mind CliffsTestPrep is the only hands on workbook that lets you study review and answer practice Regents exam questions on the topics you re learning as you go Then you can use it again as a refresher to prepare for the Regents exam by taking a full length practicetest Concise answer explanations immediately follow each question so everything you need is right there at your fingertips You ll get comfortable with the structure of the actual exam while also pinpointing areas where you need further review About the contents Inside this workbook you ll find sequential topic specific test questions with fully explained answers for each of the following sections Observation and Measurement The Dynamic Crust Minerals and Rocks Geologic History Surface Processes and Landscapes Meteorology The Water Cycle and Climates Astronomy Measuring the Earth A full length practice test at the end of the book is made up of questions culled from multiple past Regents exams Use it to identify your weaknesses and then go back to those sections for more study It s that easy The only review as you go workbook for the New York State Regents exam

Earth Science Reference Tables Workbook William Docekal, 2008-09-01 This workbook correlates with the current New York State Physical Setting Earth Science Reference Tables Each table has its own section Each section contains a detailed overview of the material additional information and a series of related practice questions

Earth Science Reference Tables Workbook William Docekal, 2017-08 This workbook correlates with the current New York State Physical Setting Earth Science Reference Tables Each table has its own section Each section contains a detailed overview of the material additional information and a series of related practice questions

Answer Key for Physical Setting Earth Science, 2008-09-01 Answer Key for past New York State Regents in Physical Setting Earth Science

Answer Key for Physical Setting Earth Science, 2017-09 Answer Key for past New York State Regents in Physical Setting Earth Science 4th Edition

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Harcourt Science: Earth science, [grade] 4, units C and D, teacher's ed, 2000

Harcourt Science: Earth science [grade] 6, units C and D, teacher's ed, 2000

Instructional Materials Selection Guide, 1979

Journal of Geological Education, 1995

Harcourt Science, 2002

Resources in Education, 1990

The Encyclopedia of Applied Geology Charles W. Finkl, 1984-07-31 The Encyclopedia of Applied Geology is an international compendium of engineering geology topics prepared by experts from many countries The volume contains more than eighty main entries in alphabetical order dealing with hydrology rock structure monitoring and soil

mechanics in addition to engineering geology Special topics focus on earth science information and sources electrokinetics forensic geology geocryology nuclear plant siting photogrammetry tunnels and tunnelling urban geomorphology and well data systems Prentice Hall Science Explorer Michael J. Padilla,2002 *Books in Print* ,1987 **The Science Teacher** ,1999 **Children's Books in Print** ,1993 **Fundamentals of Remote Sensing and Airphoto Interpretation** Thomas Eugene Avery,Graydon Lennis Berlin,1992 You never had a science teacher like this Max Axiom is a super cool super scientist Using powers he acquired in a freak accident Max demonstrates and explains science in ways never before seen in the classroom Whether shrinking down to size of an *El-Hi Textbooks in Print* ,1984 **Books in Print Supplement** ,2002

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