

# Reference Tables for Physical Setting/EARTH SCIENCE

## Radioactive Decay Data

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

## 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 Review Guide Answers

**SA Adler**



## Earth Science Reference Table Review Guide Answers:

Let's Review Regents: Earth Science--Physical Setting Revised Edition Barron's Educational Series, Edward J. Denecke, 2021-01-05 Barron's Let's Review Regents Earth Science Physical Setting gives students the step by step review and practice they need to prepare for the Regents exam This updated edition is an ideal companion to high school textbooks and covers all Physical Setting Earth Science topics prescribed by the New York State Board of Regents This book features Comprehensive topic review covering fundamentals such as astronomy geology and meteorology Reference Tables for Physical Setting Earth Science More than 1 100 practice questions with answers covering all exam topics drawn from recent Regents exams One recent full length Regents exam with answers      **Reviewing Earth Science** Thomas McGuire, 2000

**Brief Review in Earth Science** Jeffrey C. Callister, 2003-06      *Regents Earth Science--Physical Setting Power Pack Revised Edition* Barron's Educational Series, Edward J. Denecke, 2021-01-05 Barron's two book Regents Earth Science Physical Setting Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Physical Setting Earth Science Regents exam This edition includes Three actual Regents exams online Regents Exams and Answers Earth Science Five actual administered Regents exams so students have the practice they need to prepare for the test Review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies Let's Review Regents Earth Science Extensive review of all topics on the test Extra practice questions with answers One actual Regents exam      **Earth Science** Jeffrey C. Callister, 2006      *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      Roadmap to the Regents James Flynn, 2003 If Students Need to Know It It's in This Book This book develops the Earth science skills of high school students It builds skills that will help them succeed in school and on the New York Regents Exams Why The Princeton Review We have more than twenty years of

experience helping students master the skills needed to excel on standardized tests Each year we help more than 2 million students score higher and earn better grades We Know the New York Regents Exams Our experts at The Princeton Review have analyzed the New York Regents Exams and this book provides the most up to date thoroughly researched practice possible We break down the test into individual skills to familiarize students with the test s structure while increasing their overall skill level We Get Results We know what it takes to succeed in the classroom and on tests This book includes strategies that are proven to improve student performance We provide content groupings of questions based on New York standards and objectives detailed lessons complete with skill specific activities three complete practice New York Regents Exams in Physical Setting Earth Science     *Review of Earth Science* Robert B. Sigda,1994     **Earth Science: the Physical Setting** Paola Santagostino,Prentice Hall (School Division),2005 Focusing on the Earth Science content tested on the Regents Examination this thorough review guide contains extensive vocabulary review questions and Memory Jogger and Digging Deeper features Hundreds of practice questions organized in the Regents Examination format help students familiarize themselves with look and feel of the actual exam     **Lecture and Study Guide for Physical Geology** F. J. Leyden,1967     Cracking the Regents Earth Science, 2000 Edition Princeton Review Publishing Staff,Kim Magloire,2000-02-15 5 Actual Exams with Answers Explained Plus the August 1999 Exam It s no secret The best way to ace the Regents exam is by practicing on real tests This guide includes 5 actual full length Earth Science Regents exams with answers and complete explanations plus the August 1999 exam In Cracking the Regents Earth Science 2000 Edition the Regents experts at The Princeton Review teach you the test taking techniques you ll need to know Focus on the material that is most likely to show up on the test Use process of elimination to guess when you re not sure of an answer Practice your skills on the actual Earth Science Regents exams inside Visit [www review com regents](http://www.review.com/regents) for the latest Regents updates and for the January 2000 exam     Earth Science Wayne H. Garnsey,Virginia Page,2000-10 Prepares students for the new standards and the commencement level PS Earth Science Test Challenges with content based multiple choice short and extended constructed response questions Features process skills activities in information systems interconnectedness and interdisciplinary problem solving Correlates PS Earth Science key ideas on Earth dimensions rocks and minerals dynamic crust surface processes water cycle and climate astronomy and environmental awareness Fosters mastery with practice on four recent tests for practice     *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

**Guide to the study and use of reference books** Alice Bertha Kroeger,1917     Guide to the Study and Use of Reference Books ,1917     **Unearthing the Reference Tables: a Clear & Simple Reference Tables Guide for the New York State Earth Science Regents** Y. Finkel,2021-11-06     UPCO's Physical Setting - EARTH SCIENCE Robert B.

Sigda,2010-09 Earth Science Review Book is user friendly for both the teacher and the student Since the content is aligned with the New York State Core Curriculum for Physical Setting Earth Science a teacher can feel confident that all the required topics are sufficiently developed The suggested outline of units moves from the concrete material to the more abstract subjects such as meteorology and astronomy Throughout the book there is ample opportunity for review of basic skills and ways to tie in the various units For example isolines are discussed early in the year and then revisited later in the weather topics The student has the opportunity to use the book as both a reference and a workbook The extensive number of constructed response items as well as multiple choice questions found interspersed within the topics give ample practice The multiple Regents Exams found at the back of the book can be used both at the end of the course for review and whenever appropriate throughout the year

*Earth Science* Samuel N. Namowitz,Nancy E. Spaulding,1989      Earth Science Bill Linderman,Deborah Crotts,1997      *Bibliographic Guide to the Environment* ,1992

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