

# Earth Science Reference Tables

## PHYSICAL CONSTANTS

### Radioactive Decay Data

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

### Specific Heats of Common Materials

MATERIAL	S-SPECIFIC HEAT (calories/gram · C°)
Water { solid	0.5
liquid	1.0
gas	0.5
Dry air	0.24
Basalt	0.20
Granite	0.19
Iron	0.11
Copper	0.09
Lead	0.03

### Properties of Water

Energy gained during melting	80 calories/gram
Energy released during freezing	80 calories/gram
Energy gained during vaporization	540 calories/gram
Energy released during condensation	540 calories/gram
Density at 3.98°C	1.00 gram/milliliter

## EQUATIONS

Percent deviation  
from accepted value

$$\text{deviation (\%)} = \frac{\text{difference from accepted value}}{\text{accepted value}} \times 100$$

Eccentricity of an ellipse

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

Gradient

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

Rate of change

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

Density of a substance

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

### 2001 EDITION

This edition of the Earth Science Reference Tables should be used in the classroom beginning in the 2000-2001 school year. The first examination for which these tables will be used is the January 2001 Regents Examination in Earth Science.



cm 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

# Use Earth Science Reference Table

**Kathleen Robbins**



## Use Earth Science Reference Table:

**Unearthing the Reference Tables** Y. Finkel, 2018-03-27 Unearthing the Reference Tables is an excellent and thorough guide to the reference tables with clearly explained step by step examples for each table A great tool for the Earth Science Regents Mrs Tzippy Reich highly acclaimed author of Earth Science Simplified and Earth Science teacher Brooklyn NY The students found your book very helpful for the regents The diagrams and information were very clear and precise Y Possick principal Monsey NY Unearthing the Reference Tables is an invaluable aid in deciphering the Earth Science Reference Tables a key part in doing well on the New York State Earth Science Regents F Lipson Earth Science teacher Monsey NY A real lifesaver for me Your book made it possible for me to pass the Earth Science Regents B K student Brooklyn NY Did you know that about 35 50% of every Earth Science Regents is composed of questions entirely based on the Earth Science Reference Tables And did you know that a raw score of approximately 50% on the Earth Science Regents converts to a scale score of 65% with at least 9 16 lab credits If you know how to read every table on the Earth Science Reference Tables that s terrific But what if you don t Gaining a clear understanding of the reference tables is crucial for the Earth Science Regents The good news is that one of the best kept secrets of the Earth Science regents is that the reference tables based questions are the easiest part of the regents by far if you know how to use the reference tables That s where this book comes in Unearthing the Reference Tables A Clear Simple Reference Tables Guide is a book that Gives step by step instructions in clear and simple terms on how to easily decipher each one of the 28 charts on the Earth Science Reference Tables Highlights important information often asked on the Earth Science Regents Provides actual regents questions at the end of each section along with answers and brief explanations

*The Reference Tables Unearthed* Y. Finkel, 2019-09 The Reference Tables Unearthed is an excellent and thorough guide to the reference tables with clearly explained step by step examples for each table A great tool for the Earth Science Regents Mrs Tzippy Reich highly acclaimed author of Earth Science Simplified Brooklyn NY The students found your book very helpful for the regents The diagrams and information were clear and precise Y Possick principal Monsey NY The Reference Tables Unearthed is an invaluable aid in deciphering the Earth Science Reference Tables a key part in doing well on the Earth Science Regents F Lipson Earth Science teacher Monsey NY A real lifesaver Your book made it possible for me to pass the Earth Science Regents B K student Brooklyn NY Did you know that about 35 50% of every Earth Science Regents is composed of questions entirely based on the Earth Science Reference Tables And did you know that a raw score of approximately 50% on the Earth Science Regents converts to a scale score of 65% If you know how to read every table on the Earth Science Reference Tables that s terrific But what if you don t Gaining a clear understanding of the reference tables is crucial for the Earth Science Regents The good news is that one of the best kept secrets of the Earth Science regents is that the reference tables based questions are the easiest part of the regents by far if you know how to use the reference tables That s where this book comes in The Reference Tables Unearthed A Clear Simple

Reference Tables Guide is a book that Gives step by step instructions in clear and simple terms on how to easily decipher each one of the 28 charts on the Earth Science Reference Tables Highlights important information often asked on the regents Provides actual regents questions at the end of each section along with answers and brief explanations **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 Unearthing the Reference Tables: a Clear & Simple Reference Tables Guide for the New York State Earth Science Regents Y. Finkel,2021-11-06 **Regents Exams and Answers: Earth Science--Physical Setting Revised Edition** Barron's Educational Series,Edward J. Denecke,2021-01-05 Barron s Regents Exams and Answers Earth Science Physical Setting provides essential review for students taking the Earth Science Regents including actual exams administered for the course thorough answer explanations and comprehensive review of all topics This edition features 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 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 **Earth Science Reference Tables** ,2008-09-01 2001 edition of the New York State Earth Science Reference Tables 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

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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 *The Reference Tables Unearthed* Y. Finkel,2020-11-18 The Reference Tables Unearthed is a great classroom

resource for any teacher looking to teach his her students how to glean the wealth of information found in the New York State Earth Science reference tables This book includes homework questions at the end of each section that can be assigned at the end of each lesson so the teacher can ensure that the student understood the presented material correctly With its clear and easy to understand format and layout it is extremely student friendly as well **Earth Science Simplified** Shure Tzippy,2004-05-01 Earth Science Simplified The perfect earth science review book is a book that helps students as they study for the Earth Science Regents exam or other standardized Earth Science examinations This review book is unique in two ways It s written in point by point format so that there is no need to read through lengthy paragraphs to find the necessary information Concept charts placed after each chapter clarify and organize the material In addition This book contains snapshots of reference table charts throughout the chapters with explanations on how to use the charts The entire Earth Science Reference Tables can be found at the back of the book A number of practice Regents questions follow every chapter Answers to these questions are located in the back of the book Procedures for labs included in the performance test are explained **Earth Science Reference Tables and Charts** University of the State of New York. Bureau of Science

Education,1987 Reviewing Earth Science Doris Gazda,Thomas McGuire,2004-04-19 The purpose of this review book is to provide a complete review of the NYS Core Curriculum for the Physical Setting Earth Science Cracking the Regents Earth Science, 2000 Edition Princeton Review Publishing Staff,Kim Magloire,2000-02-15 5 Actual Exams with Answers

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**Redesigning New York State's Earth Science Reference Table for Clearer Student Understanding** Kathleen Robbins,2016 *Review of Earth Science* Robert B. Sigda,1994 **Reviewing Earth Science** Thomas McGuire,2000 *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 [Decoding the Earth Science Reference Tables](#) Teresa T. Eberhard,State University College at Buffalo. Department of Earth Sciences and Science Education,2005 Buffalo State College Master s project in Earth Sciences and Science Education 2005

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