

Earth Science Reference Tables

PHYSICAL CONSTANTS

Radioactive Decay Data

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

Specific Heats of Common Materials

MATERIAL	SPECIFIC HEAT (calories/gram • C°)
Water { solid liquid gas	0.5
	1.0
	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

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

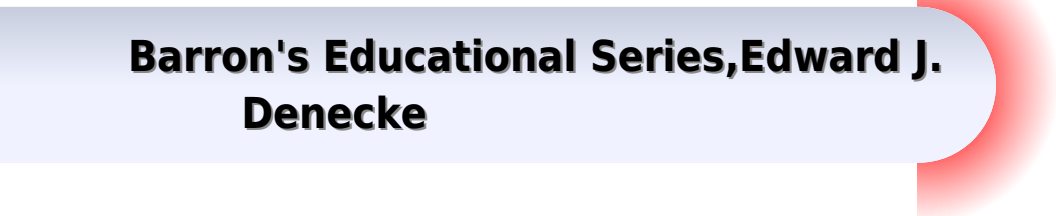
2001 EDITION

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.



Use Earth Science Reference Table

**Barron's Educational Series, Edward J.
Denecke**



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

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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 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

Whispering the Secrets of Language: An Psychological Quest through **Use Earth Science Reference Table**

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