

# 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



# Nys Reference Sheet Review Earth

**Tobias Bleicker**



## Nys Reference Sheet Review Earth:

**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

**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 the New York City Watershed Protection Program** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Committee to Review the New York City Watershed Protection Program, 2021-01-04 New York City's municipal water supply system provides about 1 billion gallons of drinking water a day to over 8.5 million people in New York City and about 1 million people living in nearby Westchester Putnam Ulster and Orange counties The combined water supply system includes 19 reservoirs and three controlled lakes with a total storage capacity of approximately 580 billion gallons The city's Watershed Protection Program is intended to maintain and enhance the high quality of these surface water sources Review of the New York City Watershed Protection Program assesses the efficacy and future of New York City's watershed management activities The report identifies program areas that may require future change or action including continued efforts to address turbidity and responding to changes in reservoir water quality as a result of climate change

**Reviewing Earth Science** Thomas McGuire, 1996 Brief Review in Earth Science Jeffrey C. Callister, 2003-06 *Reference Catalogue of Current Literature*, 1913 *New York State Education Department Bulletin*, 1910 *Earth Science* Jeffrey C. Callister, 2006 *New York State Education*, 1929 **Fundamentals of Ground Improvement Engineering** Jeffrey

Evans, Daniel Ruffing, David Elton, 2021-09-16 Ground improvement has been one of the most dynamic and rapidly evolving areas of geotechnical engineering and construction over the past 40 years The need to develop sites with marginal soils has made ground improvement an increasingly important core component of geotechnical engineering curricula Fundamentals of Ground Improvement Engineering addresses the most effective and latest cutting edge techniques for ground improvement Key ground improvement methods are introduced that provide readers with a thorough understanding of the theory design principles and construction approaches that underpin each method Major topics are compaction permeation grouting vibratory methods soil mixing stabilization and solidification cutoff walls dewatering consolidation geosynthetics jet grouting ground freezing compaction grouting and earth retention The book is ideal for undergraduate and graduate level university students as well as practitioners seeking fundamental background in these techniques The numerous problems with worked examples photographs schematics charts and graphs make it an excellent reference and teaching tool **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 **A Checklist of Official Publications of the State of New**

**York** New York State Library, 1992 *Subsurface Geologic Investigations of New York Finger Lakes* Henry T. Mullins, N. Eyles, 1996-01-01 *Debates and Proceedings in the New-York State Convention* New York (State). Constitutional

Convention, Sherman Crosswell, R. Sutton, 1846 **Planet Earth 2011** Elias Carayannis, 2011-10-03 The failure of the UN climate change summit in Copenhagen in December 2009 to effectively reach a global agreement on emission reduction targets led many within the developing world to view this as a reversal of the Kyoto Protocol and an attempt by the developed nations to shirk out of their responsibility for climate change The issue of global warming has been at the top of the political agenda for a number of years and has become even more pressing with the rapid industrialization taking place in China and India This book looks at the effects of climate change throughout different regions of the world and discusses to what extent cleantech and environmental initiatives such as the destruction of fluorinated greenhouse gases biofuels and the role of plant breeding and biotechnology The book concludes with an insight into the socio religious impact that global warming has citing Christianity and Islam **The Final Results of the Triangulation of the New York State Survey, Together with a**

**Description of the Methods Employed** New York (State). State Survey, 1887 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1962 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **Human Governance Beyond Earth** Charles S. Cockell, 2015-07-14 This book

extends the discussion of the nature of freedom and what it means for a human to be free This question has occupied the minds of thinkers since the Enlightenment However without exception every one of these discussions has focused on the

character of liberty on Earth In this volume the authors explore how people are likely to be governed in space and how that will affect what sort of liberty they experience Who will control oxygen How will people maximise freedom of movement in a lethal environment What sort of political and economic systems can be created in places that will be inherently isolated These are just a few of the major questions that bear on the topic of extra terrestrial liberty During the last forty years an increasing number of nations have developed the capability of launching people into space The USA Europe Russia China and soon India have human space exploration programs These developments raise the fundamental question of how are humans to be governed in space This book follows from a previous volume published in this series which looked at the Meaning of Liberty Beyond the Earth and explored what sort of freedoms could exist in space in a very general way This new volume focuses on systems of governance and how they will influence which of these sorts of freedoms will become dominant in extra terrestrial society The book targets a wide readership covers many groups including Space policy makers interested in understanding how societies will develop in space and what the policy implications might be for space organisations Space engineers interested in understanding how social developments in space might influence the way in which infrastructure and space settlements should be designed Space scientists interested in how scientific developments might influence the social structures of settlements beyond the Earth Social scientists political philosophers ethicists etc interested in understanding how societies will develop in the future

*New York State Journal of Medicine* ,1924      Bulletin of the Public Library  
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