Earth Science Reference Tables

PHYSICAL CONSTANTS

Radioactive Decay Data

RADIOACTIVE ISOTOPE	DISINTEGRATION	HALF-LIFE (years)
Carbon-14	G ¹⁴ → N ¹⁴	5.7×10^{3}
Potassium-40	K ⁴⁰ Ca ⁴⁰	1.3 × 10 ⁹
Uranium-238	U ²³⁸ Pb ²⁰⁶	4.5 × 10 ⁹
Rubidium-87	Rb ⁸⁷ → Sr ⁸⁷	4.9×10^{90}

Specific Heats of Common Materials

MATERIAL	SPECIFIC HEAT (calories/gram · C*)	
r solid	0.5	
Water liquid	1.0	
L gas	0.5	
Dry air	0.24	
Basalt	0.20	
Gramite	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	deviation (%) = difference from accepted value × 100	
Eccentricity of an ellipse	eccentricity = distance between foci length of major axis	
Gradient	gradient - change in field value distance	
Rate of change	rate of change = change in field value	
Density of a substance	density = mass	

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.



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Earth Science Reference Table Review Answers

Jeffrey C. Callister

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