Reference Materials icon located in the lower-left corner of the screen.

TX PACT: SCIENCE: GRADES 4-8 CONSTANTS AND FORMULAS

Acceleration of gravity on Earth (g)	9.8 m/s ²
Potential energy	PE = mgh
Kinetic energy	$KE = \frac{1}{2}mv^2$
Ohm's law	V = IR
Electrical power	P = IV
Series resistance	$R_{\text{Series}} = R_1 + R_2 + R_3 + \dots$
Parallel resistance	$\frac{1}{R_{Parallel}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$
Ideal gas law	PV = nRT
Universal gas constant	<i>R</i> = 8.31 J/mol•K = 0.0821 L•atm/mol•K
Pressure	$P = \frac{force}{area}$
Frequency of a wave	f = 1/T
Velocity of a wave	$v = f \lambda$
Specific heat (s) of water (liquid)	4.18 J/g•K = 4.18 J/g•°C = 1.0 cal/g•°C
Standard atmospheric pressure (STP)	1 atm = 760 mm Hg = 760 torr = 101.325 kPa
Speed of light in a vacuum (<i>c</i>)	3.00 × 10 ⁸ m/s
1 calorie (cal)	4.184 J
1 watt (W)	1 J/s
1 ampere (A)	1 C/s