



# Physics cheat sheet



$$d = v_i t + \frac{1}{2} a t^2$$

$$v_f = v_i + a t$$

$$W = F \cdot d$$

$$P = \frac{W}{t}$$

$$J = F \cdot t$$

$$F = m \cdot a$$

$$v = \frac{d}{t}$$

$$p = m \cdot v$$

$$KE = \frac{1}{2} m v^2$$

$$F_f = \mu F_N$$

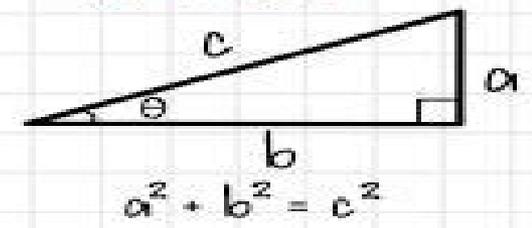
vector	scalar
displacement	distance
velocity	speed
acceleration	time
momentum	mass
force	energy

delta  $\Delta$  = final - initial

kilo	hecto	deca	base unit	deci	centi	milli
$10^3$	$10^2$	$10^1$		$10^{-1}$	$10^{-2}$	$10^{-3}$

units	
displacement	meter (m)
distance	meter (m)
time	second (s)
velocity	meter per second (m/s)
speed	meter per second (m/s)
acceleration	meter per second squared (m/s <sup>2</sup> )
mass	gram (g)
momentum	kg · m/s
force	Newton (N)
energy	Joule (J)

100 cm	→	1 m
1000 mm	→	1 m
1000 m	→	1 km



# High School Physics Study Guide

**E Staff**



## High School Physics Study Guide:

**California High School Physics** Castle Rock Research Corp.,2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in the California High School Physics study guide is 100 percent curriculum aligned and serves as an excellent source of material for review and practice Each Class Focus includes the following sections Conservation of Energy and Momentum Heat and Thermodynamics Waves and Electric and Magnetic Phenomena To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying digital version of SOLARO which may be accessed through the web or on mobile devices

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