

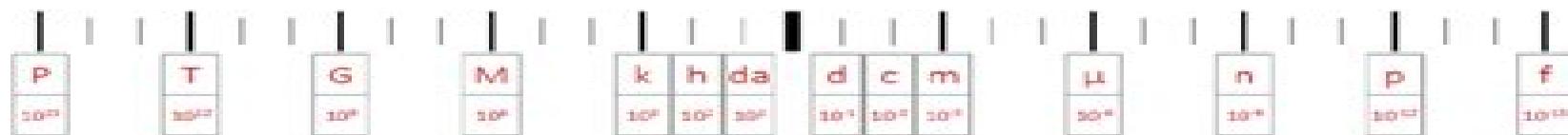
IB Physics SL - Study Guide

Science Skills

List the seven fundamental base units and their abbreviations:

	Unit	Abbreviation
Length	Meter	m
Mass	Kilogram	kg
Time	Second	s
Electric Current	Ampere	A
Temperature	Kelvin	K
Amount of Substance	Mole	mol
Luminous Intensity	Candela	cd

Metric Prefixes – List the unit prefixes in their appropriate decimal position



Dimensional Analysis

Convert the following:

$$20 \text{ mi hr}^{-1} \rightarrow \text{m s}^{-1}$$

$$\frac{20 \text{ mi}}{1 \text{ hr}} \times \frac{1609 \text{ m}}{1 \text{ mi}} \times \frac{1 \text{ hr}}{60 \text{ min}} \times \frac{1 \text{ min}}{60 \text{ s}} = 8.9 \frac{\text{m}}{\text{s}} = 8.9 \text{ m s}^{-1}$$

$$0.0007 \text{ km}^2 \rightarrow \text{m}^2$$

$$0.0007 \text{ km}^2 \times \frac{1000 \text{ m}}{1 \text{ km}} \times \frac{1000 \text{ m}}{1 \text{ km}} = 700 \text{ m}^2 \quad \text{or} \quad 0.0007 \text{ km}^2 \times \left(\frac{1000 \text{ m}}{1 \text{ km}}\right)^2 = 700 \text{ m}^2$$

Determine the units for Q:

$$Q = mc\Delta T$$

$$Q = (kg)(J \text{ kg}^{-1} \text{ K}^{-1})(K) = \frac{(kg)(J)(K)}{kg \text{ K}} = J$$

$Q = (kg)(J \text{ kg}^{-1} \text{ K}^{-1})(K) = \frac{(kg)(J)(K)}{kg \text{ K}} = J$	m (mass)	kg
	c (specific heat)	J kg ⁻¹ K ⁻¹
	ΔT (change in temp)	K

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Geoff Neuss

Ib Physics Sl Study Guide:

Ib Physics - Study and Revision Guide Tim Hoffmann, 2013 A concise study and reference guide for SL HL IB Physics The guide helps to explain all the tricky formulae and when to use them provides easily understandable definitions for every word and law in the syllabus and gives step by step instructions for useful derivations Use it for quizzing yourself and others as an aid while doing tests and exams or simply as a here to help formulae book This guide covers the entire SL HL syllabi and has been revised in line with suggestions and improvements from IB students taught by Tim Tim scored 44 points in the IB in 2005 and after completing an MEng at Oxford University now runs Elite IB www.eliteib.co.uk a tutoring agency catering for IB students around the world providing all forms of tuition and university entrance assistance IB Physics (SL and HL)

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examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

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IB Physics Pat Roby,2015

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