

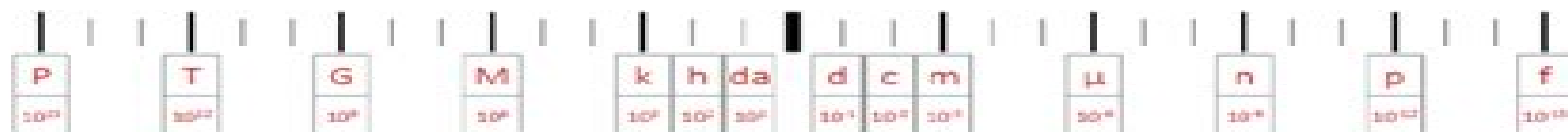
# IB Physics SL - Study Guide

## 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:

$$Q = mc \Delta T$$

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

m (mass)	kg
c (specific heat)	$\text{J kg}^{-1} \text{K}^{-1}$
$\Delta T$ (change in temp)	K

# Ib Physics Sl Study Guide

**Geoff Neuss**



## **Ib Physics SI 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](http://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 \(SL and HL\) Examination Secrets Study Guide: IB Test Review for the International Baccalaureate Diploma Programme](#) Ib Exam Secrets Test Prep, 2014-03-31 Includes Practice Test Questions IB Physics SL and HL Examination Secrets helps you ace the International Baccalaureate Diploma Programme without weeks and months of endless studying Our comprehensive IB Physics SL and HL Examination Secrets study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you've ever imagined IB Physics SL and HL Examination Secrets includes The 5 Secret Keys to IB Test Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don't Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don't Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific IB test and much more **IB Physics Study Guide: 2014 Edition** Tim Kirk, 2014-09-04 This comprehensive Study Guide reinforces all the key concepts for the 2014 syllabus ensuring students develop a clear understanding of all the crucial topics at SL and HL Breaking concepts down into manageable sections and with diagrams and illustrations to cement understanding exam preparation material is integrated to build student confidence and assessment potential Fully comprehensive and matched to the new 2014 syllabus Concise and focused approach simplifies complex ideas building truly confident understanding Clear and explanatory style uses plenty of visuals to make each concept accessible easing comprehension Build a strong foundation of assessment skills strengthening potential with integrated exam questions Develop assessment confidence drawing on thorough assessment support and advice About the Series Written by IB examiners Oxford IB Study Guides effectively reinforce key topics in a concise user friendly format cementing understanding Aligned with current syllabuses these indispensable books effectively prepare learners for assessment with revision support

past paper questions and exam strategies *IB Physics (SL and HL) Examination Secrets Study Guide* Mometrix Exam Secrets Test Prep Team, 2019 **IB Physics Diploma Study Guide for Both HL/SL**, 2011-01-14 NO description available

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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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**Physics** Chris Hamper, J. K. Ord, 2008-09-01 Providing complete coverage of the latest syllabus requirements and all the SL options this book is written specifically for Standard Level students by two highly experienced IB Physics teachers and workshop leaders

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**IB Physics** Pat Roby, 2015

**International Guide to Qualifications in Education**, 1996 A comprehensive survey of the education systems of 170 countries and an equivalence evaluation of the qualifications they offer This handbook is intended for admissions departments administrators and teaching staff in universities colleges and schools worldwide

*IB Study Guide: Physics 2nd Edition* Tim Kirk, 2008-01-03 Our bestselling IB study guide has been updated to meet the needs of

students taking the IB Diploma Programme physics from 2007 It is highly illustrated and concepts are precisely and clearly described Higher level material is clearly indicated and all new option material is covered Students can use this book not only as a revision and practice guide for the exam but for learning and reinforcing concepts throughout the course New edition available now ISBN 978 0 19 839003 9

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