

The IB Diploma Programme, for students aged 16 to 19, is an academically challenging and balanced programme of education that prepares students for success at university and life beyond. Students take courses in six different subject groups, maintaining both breadth and depth of study. Physics standard level is in group 4, experimental sciences. In addition, three core elements—the extended essay, theory of knowledge and creativity, action, service—are compulsory and central to the philosophy of the programme.

**About the IB:** For over 40 years the IB has built a reputation for high-quality, challenging programmes of education that develop internationally minded young people who are well prepared for the challenges of life in the 21st century and able to contribute to creating a better, more peaceful world.

The IB subject briefs illustrate four key course components in the IB Diploma Programme:

- |                                |                       |
|--------------------------------|-----------------------|
| I. Course description and aims | III. Assessment model |
| II. Curriculum model overview  | IV. Sample questions  |

## Overview of the physics standard level course and curriculum model

### I. Course description and aims

The IB Diploma Programme physics course exposes students to this most fundamental experimental science, which seeks to explain the universe itself—from the very smallest particles to the vast distances between galaxies. Students develop traditional practical skills and techniques and increase facility in the use of mathematics, the language of physics. They also develop interpersonal skills as well as information and communication technology skills, which are essential in modern scientific endeavours—and are important life-enhancing, transferable skills in their own right. Students, moreover, study the impact of physics on society, the moral and ethical dilemmas, and the social, economic and environmental implications of the work of physicists.

Throughout this challenging course, students become aware of how scientists work and communicate with each other. Further, students enjoy multiple opportunities for scientific study and creative inquiry within a global context. In addition, the course is designed to:

- provide opportunities for scientific study and creativity within a global context that will stimulate and challenge students
- provide a body of knowledge, methods and techniques that characterize science and technology
- enable students to apply and use a body of knowledge, methods and techniques that characterize science and technology
- develop an ability to analyse, evaluate and synthesize scientific information
- engender an awareness of the need for, and the value of, effective collaboration and communication during scientific activities
- develop experimental and investigative scientific skills
- develop and apply the students' information and communication technology skills in the study of science
- raise awareness of the moral, ethical, social, economic and environmental implications of using science and technology
- develop an appreciation of the possibilities and limitations associated with science and scientists
- encourage an understanding of the relationships between scientific disciplines and the overarching nature of the scientific method.

### II. Curriculum model overview

#### Physics standard level

Theory		116 hours
Core	80 hours of standard level instruction on 8 topics <ul style="list-style-type: none"> <li>• Physics and physical measurement</li> <li>• Mechanics</li> <li>• Thermal physics</li> <li>• Oscillations and waves</li> <li>• Electric currents</li> <li>• Fields and forces</li> <li>• Atomic and nuclear physics</li> <li>• Energy, power and climate change</li> </ul>	80 hours
Options	30 hours of instruction on two additional topics <ul style="list-style-type: none"> <li>• Light and wave phenomena</li> <li>• Quantum physics and nuclear physics</li> <li>• Digital technology</li> <li>• Relativity and particle physics</li> <li>• Astrophysics</li> <li>• Communications</li> <li>• Electromagnetic waves</li> </ul>	30 hours
<b>Practical Work</b>		<b>40 hours</b>
Investigations		30 hours
Group 4 project		10 hours
<b>Total teaching hours</b>		<b>150 hours</b>

### III. Assessment model

#### Assessment for physics standard level

The IB assesses student work as direct evidence of achievement against the stated goals of the Diploma Programme courses, which are to provide students with:

- a broad and balanced, yet academically demanding, programme of study
- the development of critical-thinking and reflective skills
- the development of research skills
- the development of independent learning skills
- the development of intercultural understanding
- a globally recognized university entrance qualification.

# Ib Physics Standard Level Subject Brief

**Michael Brown**



## **Ib Physics Standard Level Subject Brief:**

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**Physics** Michael J. Dickinson, 2012-04-01 Physics for use with the IB Diploma Programme written by Michael J Dickinson is a complete and concise learning resource for both students and teachers alike Written in plain English with an international audience in mind many of whom are known to be second language English learners it follows the IB Physics syllabus for first examinations in 2009 in a linear and sequential manner This textbook contains All eight of the Standard Level core topics IB topics 1 8 All six of the Additional Higher Level AHL topics IB topics 9 14 Selected Standard Level Options Options A to C Selected Higher Level Options Options G and H Color coding of syllabus statements formulae definitions and problems to enable easy navigation Full color illustrations to support the detailed explanations of each concept Numerous problems including worked solutions many of which have been taken from past IB examination papers All laws and definitions that are needed for the IB Physics syllabus summarized at the end of the book All formulae constants multipliers and symbols that are needed for the IB Physics syllabus summarized at the beginning of the book Subject Guide to Books in Print, 1983 *Physics* Michael J. Dickinson, 2012-04 Physics for use with the IB Diploma Programme written by Michael J Dickinson is a complete and concise learning resource for both students and teachers alike Written in plain English with an international audience in mind many of whom are known to be second language English learners it follows the IB Physics syllabus for first examinations in 2009 in a linear and sequential manner This textbook contains All eight of the Standard Level core topics IB topics 1 8 All six of the Additional Higher Level AHL topics IB topics 9 14 Selected Standard Level Options Options A to C Selected Higher Level Options Options G and H Identification of syllabus statements formulae definitions and problems to enable easy navigation Detailed illustrations to support the detailed explanations of each concept Numerous problems including worked solutions many of which have been taken from past IB examination papers All laws and definitions that are needed for the IB Physics syllabus summarized at the end of the book All formulae

constants multipliers and symbols that are needed for the IB Physics syllabus summarized at the beginning of the book

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

*Cambridge University Guide to Courses*, 2003    *Physics Briefs*, 1979    **A Standard Dictionary of the English Language ...**, 1908    The New Walford Guide to Reference Resources Ray Lester, 2005 The New Walford highlights the best resources to use when undertaking a search for accurate and relevant information saving you precious time and effort For those looking for a selective and evaluative reference resource that really delivers on its promise look no further In addition to print sources The New Walford naturally covers an extensive range of e reference sources such as digital databanks digital reference services electronic journal collections meta search engines networked information services open archives resource discovery services and websites of premier organizations in both the public and private sectors But rather than supplying a list of all available known resources as a web search engine might The New Walford subject specialists have carefully selected and evaluated available resources to provide a definitive list of the most appropriate and useful With an emphasis on quality and sustainability the subject specialists have been careful to assess the differing ways that information is framed and communicated in different subject areas As a result the resource evaluations in each subject area are prefaced by an introductory overview of the structure of the relevant literature This ensures that The New Walford is clear easy to use and intuitive Publisher

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