

Physics

(for students studying in S4 in the 2013/14 sy and taking the 2016 HKDSE Exam)

Why do you need to study Physics?

The aim of the Physics Curriculum is to provide physics-related learning experiences for students to develop scientific literacy, so that they can participate actively in our rapidly changing knowledge-based society, prepare for further studies or careers in fields related to physics, and become lifelong learners in science and technology.

What will you learn from Physics?

This curriculum consists of compulsory and elective parts. The compulsory part covers a range of content that enables students to develop understanding of fundamental principles and concepts in physics, and scientific process skills. The content of the compulsory part consists of two components, core and extension. The core is the basic component for all students whereas the extension component is generally more cognitively demanding. The elective part aims to provide in-depth treatment of some of the compulsory topics, an extension of certain areas of study, or a synthesis of knowledge, understanding and skills in a particular context. The curriculum structure of the subject is as of below:

| Compulsory part: | Elective part: (Select any 2 out of the 4 electives) |
|-------------------------------------|---|
| I. Heat and Gases | VI. Astronomy and Space Science |
| II. Force and Motion | VII. Atomic World |
| III. Wave Motion | VIII. Energy and Use of Energy |
| IV. Electricity and Magnetism | IX. Medical Physics |
| V. Radioactivity and Nuclear Energy | |

How will you be assessed in Physics?

Public examination

The public examination results of Physics constitute 80% of the subject mark. Paper 1 (2 hours and 30 minutes) sets questions on the compulsory part. It includes multiple-choice questions, short questions, structured questions and an essay question. It carries 60% of the subject mark. Paper 2 (1 hour) sets questions on the elective part. It contains multiple-choice questions and structured questions. Candidates are to attempt questions from any two of the four electives. It carries 20% of the subject mark.

School-based Assessment

School-based assessment will carry 20% of the subject mark. The minimum numbers of assessments and the percentage weightings in subject required in S5 and S6 for the SBA:

| | Minimum number of assessments | |
|----|-------------------------------|------------------|
| S5 | 1 EXPT (6%) | |
| S6 | 1 EXPT (6%) | 1 IS / EXPT*(8%) |

Over the two years of S5 and S6, there should be at least two marks for experiments (EXPT) and one mark for investigative study (IS) or an experiment with a detailed report (EXPT*). The IS/EXPT* mark is to be submitted in S6.

For further information, please refer to EDB's website "New Academic Structure Web Bulletin" (<http://334.edb.hkedcity.net/EN/>) or consult your teacher.