Physics

[applicable to the 2029 HKDSE Examination and onwards]

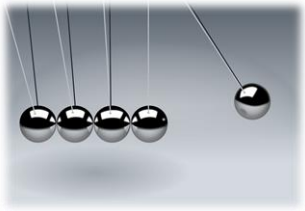
Science Education Section
Innovation Technology Education Division
Education Bureau

Curriculum Aims

- develop interest in the physical world and maintain a sense of wonder and curiosity about it;
- construct and apply knowledge of physics, and appreciate the relationship between physical science and other disciplines;
- appreciate and understand the nature of science in physics-related contexts;
- develop skills for making scientific inquiries;
- develop the ability to think scientifically, critically and creatively, and to solve problems individually or collaboratively in physics-related contexts;
- understand the language of science and communicate ideas and views on physics-related issues;
- make informed decisions and judgments on physics-related issues; and
- be aware of the social, ethical, economic, environmental and technological implications of physics, and develop an attitude of responsible citizenship.

Curriculum Framework

- **Compulsory Part**
  - **Heat and Gas**
  - **Force and Motion**
  - **Wave Motion**
  - **Electricity and Magnetism**
  - **Radioactivity and Nuclear Energy**
- **Elective Part**
  - **Astronomy and Space Science**
  - **Atomic World**
  - **Energy and Use of Energy**
  - **Medical Physics**



Assessment Mode

- **Public Assessment**

		Weighting	Duration
Paper 1	Questions set on Compulsory Part	60%	2 hours 30 minutes
Paper 2	Questions set on Elective Part	20%	1 hour

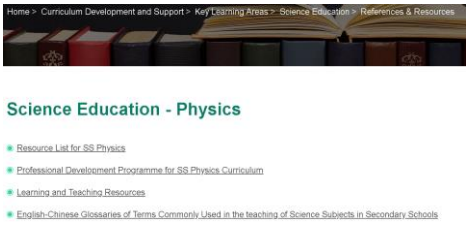
- **School-based Assessment**

	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.

Learning and Teaching Resources

Website of Science Education Section, EDB



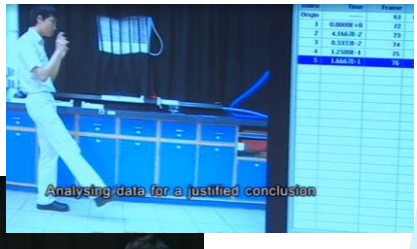
https://www.edb.gov.hk/en/curriculum-development/kla/science-edu/ref-and-resources/physics.html

EDB Educational MutiMedia (EMM)

https://emm.edcity.hk/channel/%E7%89%A9%E7%90%86%E9%A0%BB%E9%81%93+Physics+Channel/278644022

Learning and Teaching activities

Diversified Learning and teaching activities in classroom

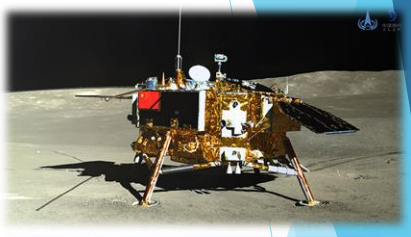


Ample learning experiences beyond classroom

Pursuit of Higher Education

Students taking Physics have advantages in pursuing study for various departments/areas, such as

- Engineering
  - Civil Engineering
  - Mechanical Engineering
  - Electrical and Electronic Engineering
  - Nuclear and Risk Engineering
  - Medical Engineering
- Finance
  - Quantitative Finance
  - Fin Tech
- Medicine and medical science
  - Medical Physics
  - Radiology
- Flight Training and Engineering
- Aerospace Science and Applications
- Quantum Computing and Informatics



Reference

- Curriculum and Assessment Guide of Physics (Secondary 4 - 6)

  Path: https://www.edb.gov.hk/attachment/en/curriculum-development/kla/science-edu/Phy_C_and_A_Guide_updated_e_20151126.pdf

- For enquiries, please contact respective subject teacher(s) or class teacher(s) at school

Thank you