

DSE Physics

Curriculum

Compulsory part (Total 200 hours)		Suggested lesson time (hours)
I. Heat and Gases	a. Temperature, heat and internal energy* b. Transfer processes* c. Change of state* d. Gases	25
II. Force and Motion	a. Position and movement* b. Force and motion* c. Projectile motion* d. Work, energy and power* e. Momentum* f. Uniform circular motion g. Gravitation	55
III. Wave Motion	a. Nature and properties of waves* b. Light* c. Sound*	48
IV. Electricity and Magnetism	a. Electrostatics* b. Circuits and domestic electricity* c. Electromagnetism*	56
V. Radioactivity and Nuclear Energy	a. Radiation and radioactivity b. Atomic model c. Nuclear energy	16
Subtotal:		200

Elective part (Total 54 hours, any 2 out of 4)		Suggested lesson time (hours)
VI. Astronomy and Space Science	a. The universe as seen in different scales b. Astronomy through history c. Orbital motions under gravity d. Stars and the universe	27
VII. Atomic World	a. Rutherford's atomic model b. Photoelectric effect c. Bohr's atomic model of hydrogen d. Particles or waves e. Probing into nano scale	27
VIII. Energy and Use of Energy	a. Electricity at home b. Energy efficiency in building and transportation c. Renewable and non-renewable energy sources	27
IX. Medical Physics	a. Making sense of the eye and the ear b. Medical imaging using non-ionizing radiation c. Medical imaging using ionizing radiation	27
Subtotal:		54

Assessment

Component		Weighting	Duration	
Public Examination	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 (SBA)		20%		

Textbook : Physics in Life (Longman)

Reference Exercise – Chapter exercise (for core only) :

- Physics Exam Exercises (Pearson Longman) -
- HKDSE Physics Level Up Exercise Book (Oxford) – Book A – D

In lesson :

1. Please bring : textbook, notebook, pen/pencil, metal ruler (20+ cm), calculator, dictionary
2. Learning in group of three or four
3. Free to ask if you have any question

After lesson :

1. Do exercise with your friends
2. Try to teach your friends, your family members, your teachers
3. Read popular science books

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