

Summary of syllabus changes (Compulsory part)

Effective from HKDSE 2016

Heat and Gases

Topic	Physics	Combined Science (Phy)
H1. Temperature Difference and Heat Transfer	No change	No change
H2. Heat Capacity and Latent Heat	No change	No change
H3. Gas Laws and Kinetic Theory	<ul style="list-style-type: none"> ✗ Derive kinetic theory equation ✓ Apply kinetic theory equation ✓ Molar mass 	No change

Force and Motion

Topic	Physics	Combined Science (Phy)
F1. Position and Movement	No change	No change
F2. Force and Newton's Laws	No change	No change
F3. Components and Moments	No change	✗ Moment of force
F4. Work, Energy and Power	No change	No change
F5. Momentum	<ul style="list-style-type: none"> ✗ 2D problems ✓ Right-angle fork 	No change
F6. 2D Projectile Motion	No change	—
F7. Circular Motion	<ul style="list-style-type: none"> ✗ Derive $a = v^2/r$ ✓ Apply $a = v^2/r$ 	—
F8. Gravitation	No change	—

Wave Motion

Topic	Physics	Combined Science (Phy)
W1. Wave Basics	No change	✗ Stationary waves
W2. Reflection and Refraction	✗ Phase change on reflection	✗ Phase change on reflection
W3. Diffraction and Interference	No change	No change
W4. Ray Optics	No change	No change
W5. Notes and Noise, and EM Spectrum	No change	No change

Electricity and Magnetism

Topic	Physics	Combined Science (Phy)
E1. Charge, E -field and Potential	<ul style="list-style-type: none"> ✗ Electric potential ✓ Apply $E = V/d$ 	<ul style="list-style-type: none"> ✗ Coulomb's law ✗ Field strength formulas
E2. Electric Circuit	No change	No change
E3. B -field and Electromagnet	No change	No change
E4. Moving Charges (Current) in B -field	<ul style="list-style-type: none"> ✗ Definition of the ampere ✗ Hall effect ✓ $F = qvB \sin \theta$ 	No change
E5. Electromagnetic Induction	No change	—
E6. A.c. Transmission and Mains	No change	No change

Radioactivity and Nuclear Energy

No change