



Curriculum Description for London IGCSE

PHYSICS (4420)

Tiers of entry

Students are entered for either Foundation Tier or Higher Tier.

The **Foundation Tier** written paper (1F) is designed for students who are unlikely to achieve a high grade, but whose achievement can still be recognized with a grade at the appropriate level. No matter how well students may do on the Foundation Tier paper, the highest grade they can be awarded is grade C. Students who fail to achieve grade G will be awarded 'Ungraded'.

The **Higher Tier** written paper (2H) contains questions that are more demanding, and there are some topics that are for Higher Tier students only.

Paper / Component	Mode of assessment	Weighting	Length
1 OR 2	Examination Paper 1F, targeted at grades C – G (Foundation Tier)	80%	1½ hours
	Examination Paper 2H, targeted at grades A* – D (Higher Tier)	80%	2 hours
03 OR 4	Examination Paper 03, targeted at grades A* – G (common to both tiers)	20%	1¼ hours
	Coursework, targeted at grades A* – G (common to both tiers)	20%	-

Candidates will be required to take **two** components.

- **Foundation Tier** candidates will take Paper 1F, and **either** Paper 03 **or** component 4 (coursework).
- **Higher Tier** candidates will take Paper 2H, and **either** Paper 03 **or** Component 4 (coursework).

Course content

There are seven areas of content as listed below.

- 1) Forces and motion
 - Movement and position
 - Forces, movement and shape
- 2) Electricity
 - Mains electricity
 - Energy and potential difference in circuits
 - Electric charge
- 3) Waves
 - Properties of waves
 - The electromagnetic spectrum
 - Light and sound
- 4) Energy resources and energy transfer
 - Energy transfer
 - Work and power
 - Energy resources and electricity generation
- 5) Solids, liquids and gases
 - Density and pressure
 - Change of state
 - Ideal gas equation
- 6) Magnetism and electromagnetism
 - Magnetism
 - Electromagnetism
 - Electromagnetic induction
- 7) Radioactivity and **particles**
 - Radioactivity
 - Particles (For Higher Tier only)**