

PHYSICS TERM BY TERM CURRICULUM

[Specification link - Edexcel 9PHO Physics A level](#)



January 2023

TOPICS COVERED IN YEAR 12

- **TOPIC 1:** Working as a physicist (to be covered throughout the 2 year course)
 - **TOPIC 2:** Mechanics (A level papers 1 & 3)
 - **TOPIC 3:** Electric Circuits (A level papers 1 & 3)
 - **TOPIC 4:** Materials (A level papers 2 & 3)
 - **TOPIC 5:** Waves and Particle Nature of Light (A level papers 2 & 3)
- 8 core practicals

YEAR 12

TERM	Teacher 1	Teacher 2
1	TOPIC 5: Waves and Particle Nature of Light (specification points 59 to 64) – part 1	TOPIC 2: Mechanics (specification points 31 to 41)
2	TOPIC 3: Electric Circuits (specification points 42 to 48) – part 1	TOPIC 2: Mechanics (specification points 31 to 41)
3	TOPIC 3: Electric Circuits (specification points 42 to 48) – part 2	TOPIC 2: Mechanics (specification points 31 to 41)
4	TOPIC 5: Waves and Particle Nature of Light (specification points 59 to 64) – part 2	TOPIC 4: Materials (specification points 49 to 52)
5	TOPIC 1: Working as a physicist Revision Internal end of Year 12 (A/S) Examination	TOPIC 4: Materials (specification points 49 to 52) Revision Internal end of Year 12 (A/S) Examination
	Internal examination – Paper 1 = week before May half-term holiday	
6	Internal examination – Paper 2 = week after May half-term holiday	
	Teaching of Year 13 topics to start TOPIC 6: Further Mechanics (specification points 103 to 104)	Teaching of Year 13 topics to start TOPIC 6: Further Mechanics (specification points 97 to 102)

TOPICS COVERED IN YEAR 13

- **TOPIC 1:** Working as a physicist (to be covered throughout the 2 year course)
 - **TOPIC 6:** Further Mechanics (A level papers 1 & 3)
 - **TOPIC 12:** Gravitational Fields (A level papers 2 & 3)
 - **TOPIC 7:** Electric and Magnetic Fields (A level papers 1 & 3)
 - **TOPIC 8:** Nuclear and Particle Physics (A level papers 1 & 3)
 - **TOPIC 11:** Nuclear Radiation (A level papers 2 & 3)
 - **TOPIC 13:** Oscillations (A level papers 2 & 3)
 - **TOPIC 9:** Thermodynamics (A level papers 2 & 3)
 - **TOPIC 10:** Space (A level papers 2 & 3)
- 8 core practicals

YEAR 13

TERM	Teacher 1	Teacher 1
1	TOPIC 6: Further Mechanics (A level papers 1 & 3) (specification points 105 to 107)	TOPIC 12: Gravitational Fields (A level papers 2 & 3) (specification points 174 to 180)
2	TOPIC 7: Electric and Magnetic Fields (A level papers 1 & 3) (specification points 108 to 129)	TOPIC 8: Nuclear and Particle Physics (A-Level papers 1 & 3) (specification points 130 to 143)
3	TOPIC 7: Electric and Magnetic Fields (A level papers 1 & 3) (specification points 108 to 129) TOPIC 1: Working as a physicist (specification points 1 to 8 recap & focus on Appendix 10 of the specification)	TOPIC 11: Nuclear Radiation (A-Level papers 2 & 3) (specification points 164 to 173)
Mock examinations – 2 weeks before February Half-Term break		
4	TOPIC 13: Oscillations (A level papers 2 & 3) (specification points 181 to 191)	TOPIC 9: Thermodynamics (A level papers 2 & 3) (specification points 144 to 155)
5	1st May onwards - Revision for final exams	TOPIC 10: Space (A level papers 2 & 3) (specification points 156 to 163) 1st May onwards - Revision for final exams
6	Final Exams <ul style="list-style-type: none"> • Paper 1 – 1 hour 45 minutes • Paper 2 – 1 hour 45 minutes • Paper 3 – 2 hours 30 minutes 	