# PHYSICS REVISION GUIDE NCB

## TOPIC LIST

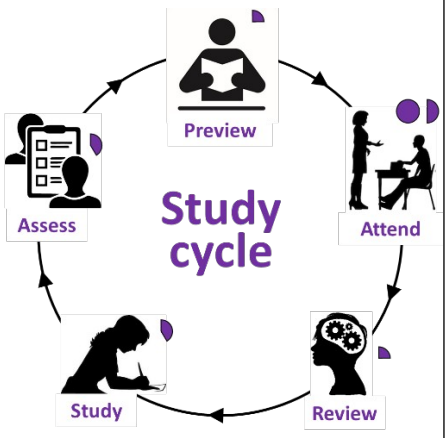
| **7408/1 (paper 1, $t = 2\,hr$)** | **7408/2 (paper 2, $t = 2\,hr$)** | **7408/3A (paper 3A, $t \approx 70\,min$)** |
|---|---|---|
| 3.1 – Measurements & errors<br>3.2 – Particles & radiation<br>3.3 – Waves<br>3.4 – Mechanics & materials<br>3.5 – Electricity<br>3.61 – Further mechanics | 3.6.2 – Thermal physics<br>3.7 – Fields & their consequences<br>3.8 – Nuclear physics<br>(with assumed knowledge from P1) | Practical skills & data analysis*<br><br>**7408/3BD (paper 3BD, $t \approx 50\,min$)**<br>Turning points in physics |
| [Fri 23rd May 2024 AM] | [Mon 9th June 2024 AM] | [Tues 17th June 2024 AM] |

## SUGGESTED IDEAS FOR REVISION

**WHAT:** Improve your **exam technique**
**HOW:** Testing yourself with exam questions then correcting / improving your work
**RESOURCES:** 1234 questions, textbook questions, PMT, SaveMyExams, A-level physics online, TOPT, Isaac Physics, outstanding booklet questions.

**WHAT: Review** the content & create **revision resources**
**HOW:** by using different sources to create condensed notes, flash cards, mind maps, summarising key definitions, annotated key diagrams / graphs etc.
**RESOURCES:** Notes, textbooks, SaveMyExams (topic qns & notes), videos, complete A3 placemats

**WHAT:** Improve your **retrieval**
**HOW:** Practice recall frequently.
**RESOURCES:** Try a mind dump on a topic, practice flash cards, or try to explain to topic out loud or to a friend.




**OTHER TIPS**

- Use exam mark schemes and glossary of textbooks to support your definitions to ensure they are relevant to the exam specification.
- Revisit the papers that you have completed and reviewed a different colour pen focusing on how to improve your answers.

## DIVIDING UP YOUR TIME

You need to be independent in assessing your strengths and weaknesses and focus on your weakest areas first.

Review your feedback from DIL and Assessments to assess which topics and skills need work (e.g. fields & electricity).

Don't leave paper 3 until the final week!
Practice past papers and Oxford International Papers

Don't limit yourself to what is provided in class, these are the minimum expected level of revision. More is required to access higher grades.

| WEEK | TOPIC | REVIEW BOOKLET | CORRECT & IMPROVE | RETRIEVAL OR REVISION RESOURCE | PAPERS COMPLETED & MARKED WITH CORRECTIONS | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | 1 | 2 | 3A | 3BD |
| 06/01 | Mag. fields | ALL AS PAPERS FINISHED BY THIS DATE (7407/1 & 7407/2) | | | | | | |
| 13/01 | Mag. fields | 08. Mechanics 1 - Scalars, Vectors and Moments | | Particles | S1 | | | |
| 20/01 | Mag. fields | 09. Mechanics 2 - Motion & Newton's Laws | 8 | Quantum | | | S1 | |
| 27/01 | Mag. fields | 10. Mechanics 3 - Momentum & Energy | 9 | Waves | | S1 | | |
| 03/02 | Mag. fields | 11. Materials - Hooke's Law & the Young Modulus. | 10 | Force & Motion | 2017 | | | |
| 10/02 | Turning Points | 12. Electricity 1 - Circuit Basics, Resistivity & Superconductivity. | 11 | Work, energy & power | | 2018 | | |
| | **FEB 1/2 TERM** | 13. Electricity 2 - Series, Parallel & Potential Dividers. | 12 | Materials | 2018 | | 2018 | |
| 24/02 | Turning Points | 14. Electricity 3 - Energy, EMF & Internal Resistance. | 13 | Electricity | | | 2017 | |
| 03/03 | **MOCK WEEK** | 15. Further Mechanics 1 - Circular Motion. | 14 | Circular motion | 2019 | | | |
| 10/03 | Turning Points | 16. Further Mechanics 2 - Simple Harmonic Motion. | 15 | Thermal physics | | 2019 | | |
| 17/03 | Turning Points | 17. Thermal Physics 1 - Specifics. | 16 | Gravitational fields | | | 2020 | 2020 |
| 24/03 | Nuclear | 18. Thermal Physics 2 - Gas Laws & MKT. | 17 | Electric fields inc. capacitors | 2020 | | | |
| 31/03 | Nuclear | 19. Gravitational Fields - Field Strength & Potential | 18 | Magnetic fields inc. E-M induction | | 2020 | | |
| | **EASTER** | 21. Fields Comparison - Orbit & Comparisons | 20 | TP: Electron discovery & wave-particle duality | | 2021 | | 2017 2018 |
| | **EASTER** | 23. Mag. Fields 1 - Mag. Forces & Flux | 21 | TP: Special relativity | 2021 | 2021 | 2019 | 2019 |
| 23/04 | Nuclear | 24. Mag. Fields 2 - Induction & Transformers | 23 | Radioactivity | | | 2021 | |
| 28/04 | Nuclear | 25. Radioactivity 1 - Nuclear Radius & Types of Radiation | 24 | Nuclear physics | | 2017 | | 2021 |
| 05/05 | Revision | 26. Radioactivity 2 - Modes & Rates of Decay | 25 | | | 2022 | | |
| 12/05 | Revision | | 26 | | 2022 & 2023 | | | |
| 19/05 | Revision | **PAPER 1 Fri 23rd May AM** | | | | | | |
| | **MAY 1/2 TERM** | | | | | | 2022 | 2022 |
| 02/06 | Revision | | | | | 2023 | | |
| 09/06 | | **PAPER 2 Mon 9th June AM** | | | | | 2023 | S1 & 2023 |
| 16/06 | Revision | **PAPER 3 Tues 17th June AM** | | | | | | |