|  |
| --- |
| **Physics Revision List Summer 2025** |
| **Exam information:** All students in Year 10 are currently on the Combined (Trilogy) Science pathway and will sit 3 combined science exams- one for Biology, one for Chemistry and one for Physics. They will then received a combined Science. **Written exam**: 1 hour 15 minutes **Exam Board:**  AQA Combined Science. **Marks**:70 marks **Questions**: A mixture of multiple choice, structured, closed short answer, and open response.**Additional Information:** A full equation sheet will be provided.  You need to bring a calculator to your exam.  This exam will cover some topics from Year 10 and some from Year 9 |
| **Topic** | Revised? |
| **Year 9** | Energy Stores and Transfers |  |
| Energy calculations (KE, GPE, Power, Energy, Efficiency) |  |
| Energy Transfer through heating (Conduction, Infra-red radiation) |  |
| **Year 10** | Specific Heat Capacity and Specific Latent Heat |  |
| Required Practical- Investigation Specific Heat Capacity of a substance |  |
| Energy demand |  |
| Renewable and Non- Renewable Energy resources |  |
| Circuit components symbols |  |
| Current, Potential Difference and Resistance, theory and calculations |  |
| The rules for series and parallel circuits |  |
| Required Practical- Resistance of a wire |  |
| Require Practical- IV Characteristics |  |
| Alternating and Direct current |  |
| Cables and Plugs |  |
| Transformers |  |
| **Year 9** | Density  |  |
| States of matter and changing state  |  |
| Gas pressure  |  |
| **Year 10** | History of the atom  |  |
| Properties of Alpha, Beta and Gamma radiation  |  |
| Uses and dangers of alpha, beta and gamma |  |
| Half life calculations and graphs |  |
| **Revision Links** |
| **Cognito Science Lessons**[Cognito Combined Science Physics Lessons](https://cognitoedu.org/courseoverview/p2-gcse-aqa-h-c/lessons)Topics 1 to 4**BBC Bitesize**[Energy](https://www.bbc.co.uk/bitesize/topics/z89ddxs)[Electricity](https://www.bbc.co.uk/bitesize/topics/zcg44qt)[Matter and Molecules](https://www.bbc.co.uk/bitesize/topics/z3ybb82)[Atomic Structure](https://www.bbc.co.uk/bitesize/topics/zshssrd) **GCSE Physics Online Videos (note: some content requires a subscription, a lot are free)**[Energy](https://www.gcsephysicsonline.com/aqa-energy)[Electricity](https://www.gcsephysicsonline.com/aqa-electricity)[Matter and molecules](https://www.gcsephysicsonline.com/aqa-particles)[Atomic Structure](https://www.gcsephysicsonline.com/aqa-atomic-structure)**Discover tutoring Combined science interactive quizzes**[All quizzes](https://discovertutoring.co.uk/quiz/physics-aqa/)  |