

Physics A' Level Transition Plan

The Physics A' Level transition pack is made up of a series of activities designed to help students start the A' Level with a solid grasp of mathematical understanding. The activities focus on key GCSE content enabling the student to develop into a successful independent learner who is able to manage their time well, self-assess their work and show resilience.

The table below contains details of the tasks to complete in each activity pack getting more difficult as the student progresses. Each week includes a deadline for students to meet to help them stay on track.

Activity Pack	Tasks within Pack	Approximate GCSE Grade	Deadline
Getting Prepared for A' Level Physics Summer Work	Self-Reflection Reading List + 250 word summary Fundamentals of Physics Questions + Self-Assessment Set-up Isaac Physics Account Complete Isaac Physics A1, A3 and A4 Tasks Complete Practice GCSE Exam Questions + Self-Assessment	4-6	05-06-20
A Level Physics Practicals Booklet	Definitions Significant Figures Calculating Errors 2	4-6	12-06-20
A Level Physics Practicals Booklet	Lines of Best Fit Gradient Equations 2 Vernier Callipers and Micrometers	4-6	19-06-20
A Level Physics Practicals Booklet	Rearranging and Deriving Equations Prefixes Significant Figures 2	4-6	26-06-20
A Level Physics Practicals Booklet	Identifying Errors Gradients Interpreting Graphs	4-6	03-07-20
A Level Physics Practicals Booklet	Describing Experiments Rearranging and Deriving Equations 2 Means and Anomalous Results	5-7	10-07-20
A Level Physics Practicals Booklet	Calculating Errors Points Plotting Gradients Equations	5-7	17-07-20
A Level Physics Practicals Booklet	Tangents Describing Experiments 2 Units	5-7	24-07-20
GCSE to A' Level Practice Questions	1.1 Base and Derived S.I Units 1.2 Significant Figures 1.3 Uncertainties Practice Questions for all of the above	5-7	31-07-20
GCSE to A' Level Practice Questions	2.1 Standard Form for Large Numbers 2.2 Prefixes for Large Numbers 2.3 Standard Form and Prefixes for Small Numbers 2.4 Powers of Ten Practice Questions for all of the above	5-7	07-08-20
GCSE to A' Level Practice Questions	3.1 Vectors and Scalars 3.2 Drawing Vectors 3.3 Free Body Force Diagrams 3.4 Calculating Resultants Practice Questions for all of the above	7-9	14-08-20
GCSE to A' Level Practice Questions	4.1 Substitute and Rearrange 4.2 Rearrange and Substitute 5.1 Word Done 5.2 Power 5.3 Efficiency Practice Questions for all of the above	7-9	21-08-20
Final Check	Check that all of the above is complete		28-08-20

Extra Reading List/Suggested Websites

- PhysicsAndMathsTutor.com
- GCSE Physics Bitesize
- Doc Brown's Physics
- CGP Physics Revision Guides

Equipment Required for First Day

- Pens
- HB Pencil
- A4 Lined Paper
- 2 x A4 Ring Binders with Dividers
- Scientific Calculator

For students who find the work challenging there are several sources of help available including video resources, YouTube clips, Seneca's online learning platform and weekly Q&A sessions with Mr D Warrington (Head of Physics) via Microsoft Teams. These online sessions will run from 4pm to 5pm on Fridays from the 5th June onwards.

It is important that students keep to the guided deadlines in the table above and submit work weekly. This will help to embed knowledge into the long term memory over the Summer months. Furthermore, students will develop their organisational skills and manage their workload to a standard expected at A' Level.

If you have any questions at all, please contact me via e-mail at DWarrington@FromeCollege.org. I look forward to seeing you, virtually, over the next few weeks.

Mr D Warrington