



# DAVENANT FOUNDATION SCHOOL

Chester Road, Loughton, Essex IG10 2LD

[www.davenantschool.co.uk](http://www.davenantschool.co.uk)



## A LEVEL PHYSICS SUMMER TASKS 2023

### Task 1

During the summer you are going to research 'The International System of Units'. Then write an essay based on your research.

The **International System of Units** abbreviated to **SI** is the modern form of the metric system and is generally a system of units of measurement devised around seven base units and the convenience of the number ten. It is the world's most widely used system of measurement, both in everyday commerce and in science. This system has been recently revised.

Within your essay you must have paragraphs covering the following points:

- A. What are the seven base units?
- B. What is a base unit?
- C. Which countries have not adopted this system?
- D. The history behind defining each of the seven base units.
- E. What are the standard decimal prefixes notations?

Min 800 words max 1000. Write the number of words at the bottom of the essay.

This work will be used in the first two weeks of the A level course and is **due in the first lesson of the course**. DO NOT CUT and PASTE as we will check, it may lead to you having to resubmit.

### Task 2

Make an account on the website [Isaac Physics \(https://isaacphysics.org/\)](https://isaacphysics.org/). This is an online assessment resource produced by the University of Cambridge. Join the class "2023 A level Physics Preparation", input the code for the class is **"UMDKLQ"**

a.

You can also click on this link.

<https://isaacphysics.org/account?authToken=UMDKLQ>

- b. There are 16 short assignments set to complete over the summer. This will ensure that you are ready for the Autumn term of the Y12 course. The assignments are

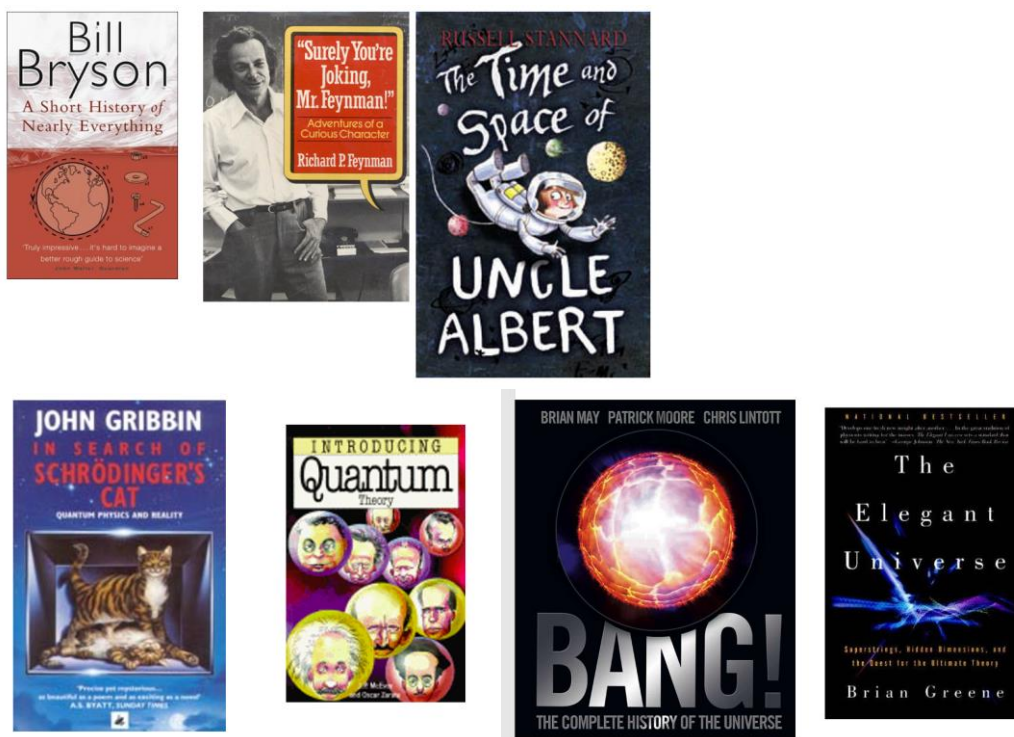
automatically marked, **ensure that the marks** will be visible to your teachers. This is due for completion on 10/9/23.

Extra resource- use the <https://app.senecalearning.com/login> website to revise your GCSE.

### **Task 3**

Finally either

1. Read one of these books, or an alternative Physics book that you find interesting. You will have to upload a review of the book 200 words when you join the course.
2. Write 200 words about a Physics related visit in the summer.



### **Top tips**

1. 30% of the Physics papers will be at Level 3 standard. So taking Maths A level will be a sensible decision especially if you want to get a grade A.
2. Read around and beyond the course, you must be able to explain both scientific ideas in scientific language through written explanations.
3. Learn how to use Goggle Classroom, Seneca.
4. Make sure you learn definitions and formulae
5. Find a smart work buddy and as many other text books and revision guides as possible to help you

Practicals are more important than you think, universities will expect a PASS for your practical endorsement.