## **A Level Physics**

## Part A - Bridging Work Task

This is a fantastic opportunity to expand your understanding of Physics as you prepare for enrolment and for starting at Franklin in September.

Please complete the work and bring a copy to your enrolment, either printed or electronically.

How do I Complete the tasks on paper/handwritten or digitally and bring a copy complete and either paper or electronically to your enrolment appointment, also take this submit my to your first lesson in September. task? If you did not attend the Taster Day don't worry – this isn't essential for completing this work but, please ensure that you have completed this bridging work. Introduction Maths skills for Physics to your The task below will help us gauge your current understanding of the **Bridging Task** mathematical techniques from GCSE and Uncertainties that you'll use in Physics, both in the examinations and for the required practicals throughout the course. **Practical applications** In our experiments during the course, we loo s behind the theory we learn and how these topics relate to a real-world scenarios. In the taster day you used Computer Aided design to look into the experiment shape of designs, in the task below you will look at some key material properties for use in these designs alongside definitions and examples of designs where these properties are important.

The work will take you around <mark>2 hours</mark> so plan your time to best suit you.

Task details	Disconciliate on this link to not the instructions for the second
lask details	Please click on this link to get the instructions for the work.
	A level Physics Bridging Work 2024 (1).docx - Google Docs
	If you were in the Taster session, you will have been given a paper copy.
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	See resources section above for resources to help you with the task.
Resources to	These are the resources you will need for the bridging task in the section further
help you with the Bridging	down this document.
Task	Maths skills Physics: You will need a scientific calculator and possibly your notes
	from GCSE Maths.
	This video may also help: <u>https://www.youtube.com/watch?v=ayjtBJ0UcqE</u>
	Here are some useful website links:
	<u>https://www.cyberphysics.co.uk/general_pages/si_prefixes.html</u> https://www.bbc.co.uk/bitesize/guides/zgbggk7/revision/4
	https://www.bbc.co.uk/bitesize/gdides/zgbggk/revision/4
	https://isaacphysics.org/concepts/cp_uncertainties?stage=all
	For the Diffraction Practical the following links may be helpful
	Video: https://www.youtube.com/watch?y=71Rp-iG6Eek
	https://www.youtube.com/watch?v=eW5VGGJuWtQ
	https://www.youtube.com/watch?v=ewsvGGJuvite
Extension Task	s
Extension	See the MOOCs section below.
Tasks to	See the WOOCS section below.
stretch and	
challenge you	
	MOOCs are Massive Open On-line Courses
Massive Open	You might enrol on these online courses and complete the following to push you a
Online	little further (this is optional).
Courses	This is a great course to help you get ready for learning at level 3!

## **A Level Physics**

## Part B – Preparing for Studying at Franklin

A fantastic opportunity to widen your understanding of the course.

Examining Board and Specification	Specification - A level (pearson.com) You will be studying the following topics: • Working as a Physicist • Mechanics • Electric Circuits • Further Mechanics • Electric and Magnetic Fields • Nuclear and Particle Physics • Materials • Waves and Particle Nature of Light • Thermodynamics • Space • Nuclear Radiation • Gravitational Fields • Oscillations
Preparing for the course	Look at some of the topics on the attached website to get an idea of the some the content we cover on the course Edexcel A-Level Physics Revision - Physics & Maths Tutor (physicsandmathstutor.com)