**Y12 Summer task – Physics**

Your task will be on plan, in detail, an experiment, so when you return in September you will be able to complete this practical. This will make up a proportion of your first assessment grade, and assess your suitability for A-level Physics. This is to be taken seriously as it will form your first evidence towards practical competency, and is reported on your final examination certificate.

Your aim is to plan, in detail, the first core practical. You will be given the Core Practical information sheet produced by EDEXCEL, and will be expected to follow method ‘b’ – an object falling through a light gate.

Your plan should include the following:

* Your name
* Title
* What you aim to find out from this experiment
* List of equipment (with details – i.e. wooden rod, 100mm)
* A list of hazards, risks and the preventative measure you will take
* You should include any equations that you will require, including their units and an explanation of each term – these/this should be re-arranged to the form in which you will use it – if you know some of these values already, then state what they are
* What you will measure and how
* A designed results table – ready with repeat reading columns and any columns for calculations which you plan to make
* A step-by-step method of the practical including your variables (independence / dependant / control)
* An explanation of what you will plot – what type of graph you will use – what will be on the x-axis and what will be on the y-axis
* An explanation of how you will calculate errors and show these on your graph
* How you will use your graph to determine the final value you are looking for in this practical
* How will you assess the success of this practical? What will the percentage difference tell you?

On return in September, we will discuss your plans, before completing this practical and writing up and concluding your findings. You will also then sit exam style questions on this. All of these together will result in your first assessment grade.

Furthermore, the practical write ups you do will form part of your practical endorsement for GCE Physics – you will not be able to re-do this practical, plan or evaluation – this counts towards your final endorsement classification.

This is a common practical, so if you are stuck, then Google will be able to provide you with ideas that you can link to the equipment available to you.

Any questions, let me know.

Mr Lyons