### Summer Work Year 11 into 12



Please complete and email to ian.glanville@plymptonacademy.tsat.uk

Name of Subject: Engineering

Summary of the course: Exam Board: BTEC Pearson

Course Title: BTEC Extended Certificate in Engineering

#### Subject/unit lead teachers and their contact:

Mr I Glanville - Head of Engineering (ian.glanville@plymptonacademy.tsat.uk)

#### What should I get in preparation for September?

Due to the lengthy nature of computer aided design work, It is highly recommended that you are able to complete the computer aided design tasks independently. As such, a laptop computer with the free download of SketchUp would be highly advantageous. https://www.sketchup.com/

**Text Books** 

Pearson BTEC National Engineering

BTEC National Engineering Publisher: Pearson

9781292141008

BTEC National Engineering Revision Guide

Publisher: Pearson

Author: Andrew Buckenham, Kevin Medcalf, David Midgley, Victor Walsh ISBN: 9781292150284

Text books can be purchased through ParentPay or borrowed from the dept with a deposit.

#### How will this be assessed in September?

This task will provide a valuable evaluation of the CAD ability gained throughout the Level 2 Engineering qualification or similar course. It can be used towards the computer aided design in engineering unit of work to be carried out later in the academic year.

#### Read it:

Attached is a copy of the text book that relates to BS8888. This does not need to be read from cover to cover, but is useful for reference purposes and would be recommended for student to have an awareness of the content therein.

BS 8888.pdf



#### Watch it:



This may be useful in the creation of your drawings. https://www.youtube.com/watch?v=i2Cz8J9ilfQ https://www.youtube.com/watch?v=5sNxW8NcCys



#### Do it:

Complete the CAD task using SketchUp. Reproduce the attached below engineered component drawing using the CAD software suggested. Consider units of measure (mm), and provide dimensions on your drawing. The output for your drawing is to be presented on a pre-drawn engineering drawing template provided.

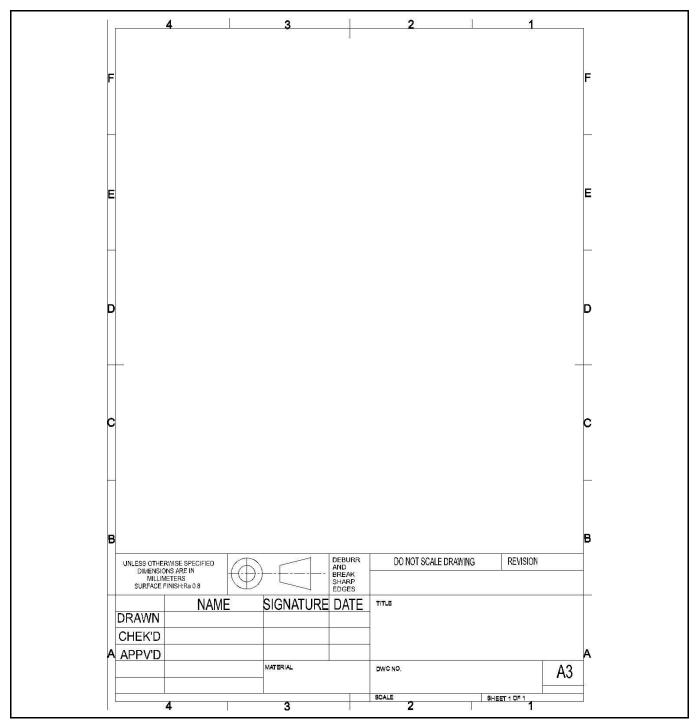


#### (Optional) Stretch it:

Include dimensions on your drawing, print screen and paste it to a ready made 2D Design template

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Tip - Remember to use mm when producing your drawing on SketchUp and also set your background to white, by going to Styles/Default/Construction Documentation Style.

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