**Pre year 12 BTEC Level 3 Engineering – Diploma & Extended Diploma**

Any questions relating to these tasks please contact:

Miss Kirby – ekirby@stj.kent.sch.uk – (submit any work)

Mr Ambrose – mambrose@stj.kent.sch.uk

Mr Magee – smagee@stj.kent.sch.uk

Diploma

If you are considering take the Diploma award. You should complete the two Level 3 Engineering tasks. Below is an additional task, which relates to one of the units only for Diploma students.

Task – Create a report on single layer and double layer PCBs (Printed Circuit Board). Look at them individually, for example, how they are created, what products they are used in, how the components are connected to the PCB. Then compare them, are there advantages to one or the other, is one better than the other?

Put all websites and sources at the bottom of the report.

Extended Diploma

If you are considering take the Extended Diploma award. You should complete the two Level 3 Engineering tasks, then the task above and final the task below, as this award is worth three A Level. Below is an additional task, which relates to one of the units only for Extended Diploma students.

Task – Create a report on what is a microcontroller? This will involve both the research and written tasks. You need to research, analyse and explain the main function, advantages/disadvantages, types of microcontroller, why they are used, etc.

Put all websites and sources at the bottom of the report.

Weblink to BTEC Level 3 Engineering specification - <https://qualifications.pearson.com/en/qualifications/btec-nationals/engineering-2016.html>