

Scheme of Work 2020 - 2021

Subject: Engineering

Year Group: Y13

Specification: AQA L3 Engineering

Lesson No	Topic & Objectives	Big Question – What will students learn?	Key Activities & Specialist Terminology (Do Now Task / Starter/Tasks/Plenary)	Planned Assessment	Homework or flipped learning resources DODDLE resources	Lit Num SMSC Codes
Term Three First Half						
Week 1	Unit 5 Performance outcome 1 Task 2 Writing g-code	Writing the code is difficult what can you use to automate?	Produce a simple program to manufacture a product using appropriate software	Works submitted by teams and will be marked. Feedback given	H/W – Ongoing development of coursework on Teams	
Week 2	Unit 5 Performance outcome 1 Task 2 Test your geode using a virtual machine.	But would you simulate a G code product?	Produce and virtually test a complex program to manufacture a product using appropriate software.	Works submitted by teams and will be marked. Feedback given	H/W – Ongoing development of coursework on Teams	

Week 3	Unit 5 Performance outcome 1 Task 2 Running g-code	Can you run G code on any machine?	Evaluate the performance of a complex program when carrying out a manufacturing activity and improve its operation.	Works submitted by teams and will be marked. Feedback given	H/W – Ongoing development of coursework on Teams	Num – Understanding co-ordinates when manufacturing using CAM / CNC
Week 4	Unit 5 Task 3 QC V's QA	What is the difference between quality control and quality?	Demonstrate the difference between quality control and quality assurance	Works submitted by teams and will be marked. Feedback given	H/W – Ongoing development of coursework on Teams	
Week 5	Unit 5 Task 3 Check product	Why are visual imperfections so important?	Select and use appropriate measurement devices to ensure the quality of your complex product and record your findings.	Works submitted by teams and will be marked. Feedback given	H/W – Ongoing development of coursework on Teams	Num – measuring, rounding, decimals, units of measurement and tolerances.
Week 6	Unit 5 Task 3 Why use your chosen measurement methods.	What measurement equipment can you use?	Justify the use of the selected measurement devices	Works submitted by teams and will be marked. Feedback given	H/W – Ongoing development of coursework on Teams	Num – measuring, rounding, decimals, units of measurement and tolerances.