



# Engineering Manufacture



Student: \_\_\_\_\_

Target Grade:	<input type="checkbox"/>	Predicted Grade:	<input type="checkbox"/>
R109 Mock - November (2018) grade			<input type="checkbox"/>
R110 – coursework score /60:			<input type="checkbox"/>
R111 – coursework score /60:			<input type="checkbox"/>
R109 – Exam Grade			<input type="checkbox"/>
R112 – Score (/ 60) needed to hit target grade			<input type="checkbox"/>

## Key Dates

- R110 (25%) Deadline – 6<sup>th</sup> November 2018
- R111 (25%) Deadline – 6<sup>th</sup> November 2018
- R109 Exam 1 hour (25%) – Thursday 10<sup>th</sup> January 2019 (afternoon session 1:30pm start)
- Results for R109, R110, & R111 7<sup>th</sup> March 2019
- R112 (25%) Deadline - 5<sup>th</sup> April 2019
- R109 summer / retake 24<sup>th</sup> May 2019

### Extra support available

Additional support is available on request Monday Evenings from 3:30 – 5pm with either Mr. Croft (D8) or Mr. Doherty (D7)

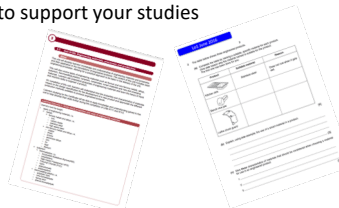
Private comments sent on Google Classroom will be answered at our earliest convenience to help support students NEA assessment away from school. Students can also access their NEA (coursework) at home via 'classroom' and they have access to the revision booklet (theory, past papers etc.)

All students have been removed from timetable periods 1-3 on Thursday 10<sup>th</sup> January 2019 for a revision session.

Revision guide / resources / clips – This has been sent via google classroom to support your studies

#### Web links

- <https://www.youtube.com/user/MrDBarryDT>
- <http://www.the-warren.org/engineering%20contents.html>
- <http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/>
- <http://www.technologystudent.com/>
- <http://www.dtapp.info/>
- <http://www.technologystudent.com/>
- <https://www.bbc.co.uk/education/subjects/zmhg9j6>



**KEEP CALM  
AND  
START REVISION**

## Engineering Manufacture - Revision Programme 2018-19

Week start	Topic	Revision tasks	Revision Guide Pages
5.11.18	Exam paper key terms	Use the revision guide to revise the key terms used throughout the questions. - Describe, Explain, Justify, Discuss, State	3
5.11.18	Types of engineering materials - Metals	Use the revision guide to revise the <b>names, properties and characteristics</b> of: - Ferrous metals and alloys - Non-ferrous metals and alloys	4,6,7
5.11.18	Types of engineering materials - Polymers	Use the revision guide to revise the <b>names, properties and characteristics</b> of: - Thermoplastics - Thermosetting plastics	6,8,9,10
5.11.18	Types of engineering materials - Other materials	Use the revision guide + watch recommended YouTube clips to revise: - Ceramics - Composites - Smart materials	5,11,12,13,14,15,16
12.11.18	Past Paper Questions	Use the revision guide to complete the past paper questions linked to <b>engineering materials</b> . <i>(Check your answers using the mark scheme at the back of the guide)</i>	17-26 (114-131)
19.11.18	Basic engineering processes	Use the revision guide + watch recommended YouTube clips to revise: <b>material removal, hand forming, joining methods, heat treatment, surface finishing, safe use of tools and equipment</b>	28-31,35-44
19.11.18	Machine processes	Use the revision guide + watch recommended YouTube clips to revise: <b>material removal, forming, moulding, safe use of tools and equipment</b>	32-34,45-77
26.11.18	Past Paper Questions	Use the revision guide to complete the past paper questions linked to <b>engineering processes</b> . <i>(Check your answers using the mark scheme at the back of the guide)</i>	78-91 (114-131)
3.12.18	Applications of computer controlled production processes	Use the revision guide, you R111 coursework (LO3) + watch recommended YouTube clips to revise: - Computer Numerical Control (CNC) machining processes - Laser applications - additive manufacturing and rapid prototyping processes	93-100
10.12.18	Materials Testing	Use your notes from R112 to revise the following <b>materials testing processes</b> : - Destructive testing (e.g. tensile testing; hardness testing) - Non-destructive testing (NDT) (e.g. conductivity testing; crack detection)	-
17.12.18	Past Paper Questions	Use the revision guide to complete the past paper questions linked to <b>computer controlled production processes</b> . <i>(Check your answers using the mark scheme at the back of the guide)</i>	101-107 (114-131)
31.12.18	The impact of modern technologies in engineering production	Use the revision guide to complete the past paper questions linked to the <b>impact of modern technologies in engineering production</b> : - Automation - Digital communications - Global manufacturing <i>(Check your answers using the mark scheme at the back of the guide)</i>	109-113 (114-131)