

Name –

Year 11 AQA Engineering MOCK Exam revision Nov 2020

Use this sheet to help you track your revision for the Mock exam. Make sure you use the revision book to help you. You may want to also use www.technologystudent.com and www.senecalearning.com to support with your revision.

Please make sure you bring to the exam all normal writing and drawing pens and pencils, a calculator, and a protractor. If you forget these, you will not be able to answer the questions on the exam paper.

Exam Revision				
As you revise use this traffic light to see where your gaps in understanding are	Red	Amber	Green	Comments
• Know the different properties of Metals like ductility, malleability, Conductivity etc with application				
• Similarities & differences in the types of Metals - Eg Between Ferrous & Non Ferrous & Alloys with examples				
Know the different types of Ferrous Metals- Types of steel (Low carbon, High Carbon etc...				
Know the different process of heat treatment of Metals- Annealing, quenching etc				
• Know the Permanent and temporary methods of joining metals.				
• Know what a composite material is, give examples and its properties advantages and disadvantages of CF ,GRP, FRP etc uses				
• Difference between Chain & Sprocket & Pulley & Belt mechanisms				
• Uses and advantages of Bearings				
• Know Metal processes like Die Casting , Sand Casting, Tap & Die - Threading, Centre Lathe , pop riveting with diagrams .				
• Know the different types of Metal finishes and why it is used				
• Know the environmental effect of renewable energy like solar , wind energy etc with advantages and disadvantages.				
• Know different types of Plastics(Polymers) , advantages & disadvantages with examples.				
• Parts of a mechanical system -Cam, cam follower and Types of Motion				
• Know plastic processes like- Vacuum Forming, Injection moulding and its advantages and where it is used.				
• CAD/CAM – uses , application , advantages & disadvantages				
• Emerging Technologies like Automation & 3D Printing and its applications in society				
• Electronics- System Block Diagram of Input Process Output and components Switches, IC 555, Counters , LEDs, Motors etc				
• Know what is the difference between Transistor and FET between Buzzer & Piezo Sounder				
• Logic Gates - AND, OR, NOR				
• Understand and describe what are precision measuring equipment and its uses				
• Mathematical problems and formulas with UNITS & conversions between units Strain, stress, Youngs Modulus etc				
• Ohms Law, Gear Ratios, Percentages, Area, volume calculations				
• Reading & Plotting of graphs .				

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