

Y11 - 10 Week Plan

Subject	Design and Technology (Engineering) 11EG/D1 CBA
Paper	Engineering Design Specification Cambridge National OCR Level 1/Level 2 J822
Work/skills/activities being covered in lesson leading to exams	 Week 1 NEA Completion. Week 2 NEA Completion. Week 3 NEA Completion. Week 4 NEA Completion. Week 5 NEA Completion. Week 5 NEA Completion. Week 6. TA1.1: The stages involved in design strategies. Exam style questioning Week 7 TA1.2.1: Stages of the iterative design process: Design . Week 8 TA1.2.2: Stages of the iterative design process: Make Week 9 Mock exam-Peer assessed and high mark questions deconstructed. Week 10 Exam style questions focused on filling knowledge gaps Remaining time personalised targeted intervention for attending pupils.
Areas to revise as a priority leading to exams	 TA1.1 Linear design Iterative design Inclusive design User-centred design Sustainable design Ergonomic design. Analysis of the design brief Methods of researching the product requirements § types of information obtained from primary research § types of information obtained from secondary research § market research to determine existing products § interviews with potential users and focus groups § use of tables of anthropometric data

§ analysis of existing products using: o ACCESS FM (Aesthetics, Cost, Customer, Environment, Size, Safety, Function, Materials and Manufacturing) o product disassembly
 Production of an engineering design specification Generation of design ideas by sketching and modelling. The reasons for the use of modelling § to test proportions § to test scale § to test function Virtual modelling of the design idea Physical modelling of the design idea Manufacture or modification of the prototype § comparison of the model or prototype against the requirements
 For the model of prototype against the requirements of the design brief and specification. Reasons for the product criteria included in the design specification (ACCESS FM): § Aesthetics § Cost § Customer § Environment § Size § Safety
 § Function § Material § Manufacturing. Scale of manufacture: § one-off § batch
 § mass Material availability and form Types of manufacturing processes: § wasting § shaping § forming § forming § joining § finishing § assembly
 Production costs § labour § capital cost Types of drawing used in engineering

Suggested methods of revision	 DT Core technical principles using the BBC Bitesize website for the AQA specification. Use theory folder that has been created specifically for revision of knowledge
	 BBC Bitesize – https://www.bbc.co.uk/bitesize/examspecs/zby2bdm for quizzes, past papers and knowledge summaries.