

5 YEAR MAP OF LEARNING: Engineering

SUBJECT LEADER: Mr Kirkbride

FACULTY: Fabricare

Year 7	Year 8	Year 9	Year 10	Year 11
Units - Unit 1 - Graphics - Unit 2 - Textiles (Day of the Dead) - Unit 3 - Resistant Materials (Timber box) Assessment - Graphic skills - Textiles knowledge and practical - Timber knowledge and practical	Units - Unit 1 - Graphics - Unit 2 - Product Design (Maze) - Unit 3 - Product Design (Nightlight) - Unit 4 - Textiles (plant Pot) Assessment - Graphic skills - CAD/CAM knowledge and practical - Timber/Polymers knowledge and practical	Units - Unit 1 - Graphics - Unit 2 - Product Design (Lamp) - Unit 3 - Textiles (Bucket Hat) Assessment - Graphic skills - Design movements knowledge and practical - Textiles techniques, knowledge and practical	Units - Unit 1 - Engineering disciplines / developing CAD and practical skills - Unit 2 - Science and Maths in Engineering / developing CAD and practical skills - Unit 3 - Properties, characteristics and selection of materials / developing CAD and practical skills - Unit 4 - Production planning techniques / developing CAD and practical skills Assessment - Engineering disciplines / CAD / Practical - Science and Maths / CAD / Practical - Engineering disciplines/ Science and Maths / selection of materials / CAD	Units - Unit 5 - Preparing for the NEA - NEA - materials research - NEA - Isometric Sketch / BS 8888 - NEA - Engineering drawings - NEA - Production planning - NEA - Manufacturing - NEA - evaluation - Exam preparation Assessment - Engineering disciplines/ Science and Maths / selection of materials / CAD / section 1&2 of NEA - Engineering disciplines/ Science and Maths / selection of materials / CAD / Sections 1,2,3,4 of NEA - Engineering disciplines/ Science and Maths / selection of materials / CAD / completed NEA