

Curriculum information sheet –

Design & technology resistant materials

Faculty Design and Technology
Subject Resistant Materials
Subject leader Natalie Sutton Contact Natalie.Sutton@ninstiles.org.uk
Year 11 information – WJEC GCSE Design & Technology - Resistant Materials Unit 1: RESISTANT MATERIALS WRITTEN PAPER (40%) Written Paper: 2 hours 120 marks (80 UMS) This will consist of one paper for each focus area. Section A 20% (60 marks) Four compulsory questions related to the world of Design and Technology and focus area specific. Section B 20% (60 marks) Four compulsory questions based on the specification content. These questions share a common structure across all focus areas. Unit 2: RESISTANT MATERIALS TASK (60%) Controlled Assessment 180 marks (120 UMS) Part A Carry out an analysis of the problem, write a design specification, generate a range of ideas, develop a solution and produce the details of the final solution. (10 guided hours). Part B Plan the making process, carry out the making and evaluate project. (20 guided hours).
Synopsis of the course: A course in Resistant Materials offers a unique opportunity in the curriculum for students to identify and solve real problems by designing and making products in a wide range of contexts relating to their personal interests. It develops students' capacity for imaginative, innovative thinking, creativity and independence. The specification is based upon the view that Resistant Materials is essentially a practical activity involving the combination of skills with knowledge and understanding in order to design and make quality products. It is intended to develop students' design and technological capability through a flexible and broad-based approach. Students have the opportunity to analyse and evaluate situations, design and make products, and then appraise their performance. They will have the opportunity to work with a range of materials, ICT and the use of CAD/CAM. As a fundamental part of the course, students will design and make products. They will carry out activities related to industrial practices and the application of systems and control within the designing and making of their products.
Year 10 information – WJEC GCSE Design & Technology - Resistant Materials See above.

