

GCSE DESIGN AND TECHNOLOGY (WJEC) this is a popular 2 year course. During the lessons the students will be focussing on CAD/CAM (Computer Aided Design / Manufacture) to design, present and create their work. The use of Techsoft 2D Design and our new Laser Cutter will offer Valence students greater independence for than we have previously been able to offer while aiding in the fulfilment of this GCSE course requirement. The assessment of this course is broken into 2 assessment areas Design and Technology in the 21st Century Written examination: 2 hours 50% of qualification A mix of short answer, structured and longer writing questions. Our focus area is Product Design. Alongside this a Design and make task 50% of qualification which should take the students 35 hours in class time with support to design and make an item to answer the challenge set by WJEC, the student will have to identify, investigate, analyse and outline design possibilities, design and make prototypes and evaluate their fitness for purpose.

#### ENTRY LEVEL COURSE – (EDEXCEL)

Students will have the opportunity to follow the creative design process to design and make a product in response to a derived or given brief and specification criteria. The design and make activity, and associated assessment criteria, at each level constitute the total assessment of the Edexcel Entry Level Certificate in Design and Technology. The assessment criteria are progressive through the three levels. Students must demonstrate competence in all four stages of the design and make activity at either Entry 1, Entry 2 or Entry 3 to achieve that level of award. Work for the Edexcel Entry Level Certificate in Design and Technology is largely expected to be delivered through visual and kinesthetic learning styles with the appropriate supportive levels of written work. It is important, therefore, to ensure that a clear record of progress is maintained, principally through the student's portfolio with photographic evidence or the use of assessor witness statements. To encourage the feeling of ownership and the greater independence of our Entry Levels Students we will encourage the use of CAD/CAM. We are focussing on ways that our students can gain the best access to these technologies that can lessen the disadvantages of disability in comparison with more able-bodied students. We also believe that this will improve student satisfaction and enjoyment of the subject.

Picture 1 is a house that GCSE/class N students do to master inlaying and engraving skills for the flash drive project.

Picture 2 is a game logo that GCSE/class N student made to learn how to use imported graphics as a basis for laser cutting.

Picture 3 is an entry level type project from last year as is picture 4.



