Al Jazeera Academy D & T Department Programme of Study for Term 1 - 2011

Year	Project	Knowledge and content	Key skills taught	Useful Websites	What and how will the students' work be assessed?	Extra curricular opportunities
7 **Boys & Girls**	Key fob project	Introduction to Design & Technology and workshop safety. --- Design process. --- Design and make an acrylic key fob.	Using tools and machines safely. --- Students will learn the design process to design and make an acrylic key fob. --- Students will design and make an acrylic key fob. They will learn how to use the pillar drill, band saw, files, abrasive papers, the buffing machine and polish.	www.technologystudent.com	The students' safety practises will be assessed by observation. --- The design process in the students' workbooks will be marked/assessed using the NC attainment levels for D & T. --- The students' product will be assessed by outcome.	
8 **Boys & Girls**	Mobile phone holder	Design and make a phone holder out of pine and acrylic using the design process.	Design process. Designing and making a phone holder using softwood and acrylic. Use of templates in D & T. Marking out and cutting a housing joint using a steel rule, try square, bench hook, tenon saw, bevel edge chisel and a pencil. Preparing and painting wood using glass paper and emulsion paint.	www.technologystudent.com	The design process in the students' workbooks will be marked/assessed using the NC attainment levels for D & T. The students' product will be assessed by outcome.	Graphics
9 **Boys & Girls**	Jewellery	Design and make a pendant out of pewter using the design process.	Design process. Designing and making a pendant using pewter and the casting process. Making and using of moulds in D & T. Using the scroll saw to saw intricate shapes in MDF. Casting using moulds. Working with metals using the junior hack saw, flat files, needle files, abrasive papers, buffing machine and metal polish.	www.technologystudent.com	The design process in the students' workbooks will be marked/assessed using the NC attainment levels for D & T. The students' product will be assessed by outcome.	Graphics
10 **IGCSE** **Boys**	Acrylic tooth brush holder.	Make a tooth brush holder out of acrylic.	Working with plastics. Marking out accurately using a detailed drawing. Cutting and drilling plastics accurately. Finishing plastics to a high quality. Bending plastics using the wire strip heater.	www.technologystudent.com	Working with plastics design worksheets will be marked and IGCSE grades will be used to assess the students' progress. The students' tooth brush holder will be assessed by outcome. Accuracy and quality of finish will be assessed.	Graphics
10 **IGCSE** **Boys**	Nesting box	Make a nesting box out of soft wood.	Working with soft woods. Marking out accurately using a detailed drawing. Sawing and drilling soft wood accurately. Preparing soft wood pieces for assembly. Assembling prepared pieces using PVA adhesive and pin nails. Selection and use of protective finishes for outside.	www.technologystudent.com	Working with wood design worksheets will be marked and IGCSE grades will be used to assess the students' progress. The students' nest boxes will be assessed by outcome. Accuracy and quality of finish will be assessed.	Graphics
11 **MYP** **Boys & Girls** **Terms 1 & 2**	Chess board and chess pieces.	Design and make a chess board and chess pieces.	Students will use the knowledge gained in MYP years 7 to 10 to design and make a chess board, and all the chess pieces for terms 1 and 2. Students will use various materials, adhesives, tools, machines and finishes of their choice to complete their project.	www.technologystudent.com	The MYP design criteria will be used to assess the students The students' chess boards and chess pieces will be assessed by outcome. Design, accuracy and quality of finish will be assessed.	Graphics