Curriculum Area: Product Design Year: 10 & 11

2015/2016

Topics	Year Curriculum	How you can support learning at home, eg. Books, websites, family learning through visits.
Candidates should demonstrate these skills through designing:	Year 10	Parents and carers can encourage their
	This first year of the two-year course deals mainly with	child/children to be as actively involved in
 be creative and innovative when designing; 	the students acquiring the underpinning knowledge and	the design and manufacture of everyday
	skills that are essential to their success in both the	products. Taking an interest in the many
 design products to meet the needs of clients and 	written paper and the controlled assessment. The	design and making related television
consumers;	course is planned to ensure that candidates are taught	programmes; watching and discussing
	the underpinning knowledge and skills that are the	them with your child/children can also be
 understand the design principles of form, function and 	foundation of Product Design. These skills will be	useful. Support will be vital in ensuring
fitness for purpose;	delivered through focussed practical and theory tasks.	that all work is submitted for deadlines.
	The underpinning skills are:	These limbs are the websites where we
understand the role that designers and product	Theoretical Knowledge	These links are the websites where we have found some of the useful
developers have, and the impact and responsibility they	" Paper/card plus at least one other material	
have on and to society;	ï Design issues such as sustainability, packaging, human factors, etc.	information and resources that you will find on this page. To find more
 develop and use design briefs and specifications for product development; 	i Manufacturing for both school based and commercial	information or visit the sites that they
	methods	came from, click on the links below.
	Designing and making skills	carrie from, effect on the first below.
 consider the conflicting demands that moral, cultural, economic, and social values and needs can make in the planning and in the designing of products; 	i Drawing and modelling skills	A list of websites that might be helpful in
	ï Analytical skills	research and revision:
	ï ICT skills	http://filestore.aga.org.uk/subjects/AQA-
	ï Hand, machine and CAM production methods	4555-W-SP-14.PDF
 consider health and safety in all its aspects; 	·	
consider realth and safety in all its aspects,	Year 11	http://filestore.aqa.org.uk/subjects/AQA-
 use, where appropriate, a range of graphic techniques and ICT (including digital media), including CAD, to generate, develop, model and communicate design proposals; 	Much of the second year of the course is dedicated to	4555-W-TRB-RL.PDF
	the controlled assessment task. Lessons are used mainly	
	to prepare the candidates for the controlled task	http://www.technologystudent.com/prdd
	sessions where candidates will be working under	es1/prddex1.html
	informal supervision. Candidates are required to work	
 Investigate and select appropriate materials; 	independently with the manufacture of the prototype.	



- communicate the design proposal in an appropriate manner;
- test and evaluate the final design proposal against the design specification;

Candidates should demonstrate these skills through making:

- select and use tools/equipment and processes to produce quality products;
- consider the solution to technical problems in the design and manufacture process;
- use tools and equipment safely with regard to themselves and others;
- work accurately and efficiently in terms of time, materials and components;
- manufacture products applying quality control procedures;
- have knowledge of Computer-Aided Manufacture (CAM) and to use as appropriate;
- ensure, through testing, modification and evaluation, that the quality of their products is suitable for intended users and devise modifications where necessary that would improve the outcome(s);
- understand the advantages of working as part of a team when designing and making products.

(60% of the assessment.)

The spring and summer term have been allocated to the final preparation for the written paper which does now contain a pre-release topic to allow candidates to prepare for the section A (first question) which will be worth around 25% of the paper mark.

