Curriculum Area: Product Design **Year:** 7
2015/2016

Topics	Year Curriculum	How you can support learning at home, eg. Books, websites, family learning through visits.
Year 7 (8 Week) **Introduction to CAD/CAM** **Earphone Wrap.**	Learners will be challenged to develop their knowledge of CAD/CAM and use ICT to programme the Laser Cutter to produce an Earphone WRAP. They will: **Learners should demonstrate these skills through designing:** • be creative and innovative when designing; • design products to meet the needs of clients and consumers; • consider the conflicting demands that moral, cultural, economic, and social values and needs can make in the planning and in the designing of products; • consider health and safety in all its aspects; • use, where appropriate, a range of graphic techniques and ICT (including digital media), including CAD, to generate, develop, model and communicate design proposals; • Investigate and select appropriate materials; • test and evaluate the final design proposal **Learners 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	Parents and carers can encourage their child/children to be as actively involved in the design and manufacture of everyday products. Taking an interest in the many design and making related television programmes; watching and discussing them with your child/children can also be useful. Support will be vital in ensuring that all work is submitted for deadlines. These links are the websites where we have found some of the useful information and resources that you will find on this page. To find more information or visit the sites that they came from, click on the links below. A list of websites that might be helpful in research and revision: http://www.technologystudent.com/prddes1/prddex1.html http://www.bbc.co.uk/schools/gcsebitesize/design/ http://www.design-technology.info/home.htm

	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.	