



St Joseph's RC Middle School

Design and Technology Subject Overview

	Autumn Term	Spring Term	Summer Term
Year 5	<p>Badge project Generating ideas Using colour Considering shape Using ICT (publisher) To generate a range of ideas To produce a badge</p>	<p>Wind chimes Designing Cutting and shaping metals Quality of cutting and filing</p>	<p>Designing for ceramics. Working with clay. Quality of final product.</p>
Year 6	<p>Graphics 3D Drawing and shading. 3D Computer modelling Quality of 3D Cube Hand held game project 1 Natural timber and manmade boards Direct marking Accurate measuring Accuracy of measuring and marking</p>	<p>Hand held Game 2 Designing Marking and cutting various framing joints Design ideas</p>	<p>Hand held Game 3 Applied graphics Independent design and planning. Finishing and evaluating Quality of product Mechanisms – Axels gears pulleys and cams</p>
Year 7	<p>Desk tidy project 1 Designing for a specified user. Using mock ups top aid design Evaluating products Marking shaping and finishing complex shapes Applying stain and paint for decoration</p>	<p>Desk tidy 2 Assembling and finishing products Evaluating Batch production for cost and efficiency Quality of final product Textiles – Mini Cushion</p>	<p>Textiles – Mini Cushion Using the sewing machine to accurately construct the cushion using plain seams. Sewing machine guiding exercise Complexity, quality and evaluation of final product Food</p>

	Use of mock up to develop solution	<p>Accurate stencilling of initials Individual design for cushion front: suitable for stencilling and showing progression Using hand stitching to decorate design using a variety of stitch types. Quality of decoration</p>	<p>Safe and hygienic use of ovens and equipment to make a selection of simple dishes using the rubbing in method. To design and make a biscuit if time allows. Individual planning, organisation and evaluations. Confidence in handling food and equipment / Quality of outcomes</p>
Year 8	<p>Design and make a thumb piano Mouldboard of African tribal art. Researching to solve problems Cross-sections Constructing a sound box. Cutting, shaping and drilling metals Computer aided design Quality of design work</p>	<p>Thumb piano Time management with a Gantt chart Assembling complex products. Evaluating Quality of final product Textiles Design and make a tote bag for a specific purpose. Experimental with and select appropriate methods of decoration, included CNC machine. Relevance, planning and evaluation of work Quality of decoration Construction of bag using a sewing machine Sewing machine skills Quality of final product</p>	<p>Food Pupils to use rubbing in method to make shortcrust pastry Dishes include cheese straws to show shaping skills, Jam tarts and mini quiches. If time allows a hand held snack of own choice can be made Individual planning organisation and evaluations. Confidence in handling food and equipment Quality of outcomes</p>