

Year 8 DT Curriculum Map

Food	Textiles	Resistant Materials	Graphics
<p>Learning focus/topic: Food for Schools & Developing Nutritional knowledge</p> <p>Skills: Use a broad range of preparation techniques and methods when cooking, e.g. grilling, safe use of hob, boiling/simmering, draining, making/shaping dough, roux sauce, safe handling of meat,</p> <p>Theory knowledge learnt: Microorganisms, primary processing and raw materials, food provenance, food commodities, allergies, intolerances, sauce making, vitamins and minerals, energy balance, nutritional needs of different age groups.</p> <p>Assessment:</p> <ul style="list-style-type: none"> - 1 x non-examination assessment grade (Manufacture) - 1 x knowledge grade <p>Key words: To include nutrients (names & functions), composite, hydration, Eat well guide, balanced meal, savoury, starchy, energy, Kcal, Kjoules, energy balance al dente, all-in-one, simmer, roux, protein, alternatives, vegetarians, vegans, pescatarians, prove, bounce back, dough, marinade, reduced, blended</p> <p>Challenge: B,S,G in individual recipes and by outcome B, S, G in worksheets, also justify own practical grade</p>	<p>Learning focus/topic: Design and create a messenger bag based on local architecture. The bag must include a SMART material and promote the local area to tourists.</p> <p>Skills:</p> <ul style="list-style-type: none"> - Analyse design challenge - Design, develop and model - Apply knowledge of SMART textiles and printing. - Skills in using sewing machine, craft knife, creating a lining, embellishment, transfer dyeing, batik, effective and accurate measurement, hand stitching, seams, pockets. <p>Theory knowledge learnt: sources and origins of textiles, composite materials, technical textiles, woven, non-woven & knitted fabrics, forces and stresses, smart & modern materials, recognise the importance of pattern and structure.</p> <p>Assessment:</p> <ul style="list-style-type: none"> - 1 x non-examination assessment grade (evaluate) - 1 x knowledge grade <p>Key words: Inkodye, stencil, architecture, smart material, pattern, seam, environment, craft knife, cutting board, kalico, development, tourism, lining.</p> <p>Challenge: Creating own pocket, use of zip and independently using sophisticated embellishment.</p>	<p>Learning focus/topic: Design Brief Introduced to pewter casting then students to “Design and make a prototype Garden tool that could be used in a window box or to plant bulbs. It must be lightweight, water resistant and be easy to grip.</p> <p>Skills:</p> <ul style="list-style-type: none"> - Analyse design challenge - Design, develop and model - Skills in using workshop tools equipment and machinery (cutting, shaping, drilling metal, riveting, plastic dip coating). Using CAD to create a pewter mould which can be cut on the laser cutter. <p>Theory knowledge learnt: applying knowledge on metals, sources and origins, pewter casting, conversion and reactivity, production aids, stock forms, types, sizes, surface treatments and finishes.</p> <p>Assessment:</p> <ul style="list-style-type: none"> - 1 x non-examination assessment grade (Analyse) - 1 x knowledge grade. <p>Key words: Pewter, independent, ferrous, non-ferrous, casting, drilling, riveting, dip coating, mould.</p> <p>Challenge: Complete +1 challenge tasks in all lessons and achieve gold outcomes. Challenge tasks for homework.</p>	<p>Learning focus/topic: Understanding about mechanisms and different types of motion, applying these to create a pop up card.</p> <p>Skills:</p> <ul style="list-style-type: none"> - using craft knives and steel rules - Design, develop and model design ideas - Skills in using CAD software, typography, printing processes, quality control. <p>Theory knowledge learnt: mechanisms, different types of motion, levers, linkages, industry & manufacturing methods, one-point perspective, sources & origins of paper and board. How laser cutter can be used in paper and boards, printing processes, finishing techniques, lamination, foil blocking, UV vanishing, embossing, encapsulation, die cutting</p> <p>Assessment:</p> <ul style="list-style-type: none"> - 1 x non-examination assessment grade (Design) - 1 x knowledge grade. <p>Key words: Linear, rotary, oscillating, reciprocating, cam, follower, die cutting, lamination, foil blocking, UV vanishing, embossing and encapsulation</p> <p>Challenge: Using illustrator completely independently.</p>
<p>Following CET design programme within DT projects too. The core principles: structure, pattern, meaning, performance and human interaction</p>			