

# Design and Technology KS3 Curriculum Implementation plan - 2021—2022

## Design and Technology KS3 Curriculum Overview

Year:	Textiles	3D Design	Food Prep and Nutrition	Design Module	Health and Social Care
7	<p><b>Apron project</b>  <b>Key Concepts -</b>                      Health and Safety, Research, Designing, Making and Evaluating, synthetic fabrics, printing.</p> <p><b>Key Skills -</b>                      Measuring, rendering, researching, designing using a theme.</p>	<p><b>Torch project</b>  <b>Key Concepts -</b>                      Health and Safety, Research, Designing, Making and Evaluating, plastics, woods, electronic components</p> <p><b>Key Skills -</b>                      Assembling, Measuring, shaping, Cutting, Filing and Finishing.</p>	<p><b>Healthy Eating</b>  <b>Key Concepts -</b>                      Health and safety, Personal hygiene, Food safety, Knife skills, Eatwell guideline, Nutrients, Labelling, Sensory analysis, Seasonal foods</p> <p><b>Key Skills -</b>                      Identifying hazards, Using the hob, grill and oven safely, Weighing and measuring, Proving, kneading, Demonstrating knife skills: Claw grip, bridge hold</p>	<p><b>Softies - Super heroes -</b>  <b>Key Concepts -</b>                      Health and Safety, Researching, Designing, Making and Evaluating, sewing techniques and fabrics.</p> <p><b>Key Skills -</b>                      Rendering, designing from a brief, shaping, sewing and decorative techniques.</p>	

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			<p>Creating a healthy balanced meal</p> <p>Evaluating</p> <p>Designing</p>		
8	<p><b>Pencil Case - Graffiti art</b></p> <p><b>Key Concepts -</b> Health and Safety, Research, Designing, Making and Evaluating, natural fabrics, printing, graffiti art style.</p> <p><b>Key Skills –</b> Measuring, manufacture, sewing machines, fasteners (zips), printing, rendering and graffiti art.</p>	<p><b>Pewter Casting</b></p> <p><b>Key Concepts -</b> Health and Safety, Research, designing in 3D, Making and Evaluating, woods, metals and plastics</p> <p><b>Key Skills -</b> Technical drawings, mould manufacture, coping saw, tenon saw, tri square, file selection, finishing, casting, drilling, hack saw, polishing.</p>	<p><b>Social, moral, ethical and cultural focus</b></p> <p><b>Key Concepts -</b> Healthy eating Nutritional labelling Food science – coagulation Cooking methods Knife skills Special diets Food science: Raising agents Product analysis Emulsification Research</p> <p><b>Key Skills -</b> Designing a healthy balanced meal.</p>	<p><b>Cup Cake—</b></p> <p><b>Packaging and graphical design</b></p> <p><b>Key Concepts -</b> Health and Safety, Researching, Designing, Making and Evaluating, 2d design.</p> <p><b>Key Skills -</b> Rendering, designing from a brief, oven safety, weighing and measuring, mixing and decorating.</p>	

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			<p>Demonstrating knife skills; Claw grip, bridge hold, dicing, slicing.</p> <p>Weighing measuring</p> <p>Packaging design.</p> <p>Preparing/ handling raw foods</p> <p>Coating</p> <p>Thickening sauces</p> <p>Designing a meal for a target group.</p> <p>Evaluating</p>		
9	<p><b>Egyptian - Cap/Hat design</b></p> <p><b>Key Concepts -</b> Health and Safety, Research, Designing, Making and Evaluating, natural fabrics, printing, embellishment.</p> <p><b>Key Skills -</b></p>	<p><b>Pewter Casting</b></p> <p><b>Key Concepts -</b> Health and Safety, Research, designing in 3D, Making and Evaluating, woods, metals and plastics</p> <p><b>Key Skills -</b> Technical drawings, mould manufacture, coping saw, tenon saw, tri square, file selection,</p>	<p><b>Key Concepts -</b> Bake off brief Sensory evaluation Creating a time plan Food choice</p> <p><b>Key Skills -</b> Measuring and weighing Designing Shaping, moulding</p>		<p><b>The Simpsons – Human Lifespan</b></p> <p><b>Key Concepts –</b> Life stages, PIES development (physical, intellectual, emotional and social), factors that affect development.</p>

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	Measuring, sewing machines (including the use of CAD), construction, printing, rendering, designing using a theme.	finishing, casting, drilling, hack saw, polishing.	Creating and following a time plan.		<b>Key Skills –</b> Explaining, identifying, analysing, rationalising, justifying, understanding.
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