

# DT KS3 Curriculum Overview

During Key stage 3, ALL pupils work with a variety of materials and complete a rotational course covering all modules. 1 term = Resistant Materials, 1 term = Graphics, 1 term = cooking and nutrition.

	Cooking and Nutrition	Cooking and Nutrition	Resistant Materials HT 1	Resistant Materials HT 2	Graphics HT1	Graphics HT2
<b>Year 7 National Curriculum</b>	<p>Hygiene and safety / storage of foods. Introduction to cooking skills.</p> <p><b>Commodities: fruit and vegetables.</b></p> <p><b>Practicals : salads, soup, croque monsieur</b></p>	<p>Healthy eating.</p> <p><b>Commodities: butter, oils, margarine and sugars.</b></p> <p><b>Practicals: flapjack, curry</b></p>	<p><b>User Centred Design</b></p> <p><b>Knowledge;</b> materials, tools and equipment, health and safety.</p> <p><b>Designing and Making skills</b></p> <p><b>Timber</b> Focused practical task</p>	<p><b>User Centred Design</b></p> <p><b>Knowledge;</b> materials, tools and equipment, health and safety.</p> <p><b>Metal-</b> Focused practical task</p> <p><b>Plastic CAD/CAM-</b> Focused practical task</p> <p><b>Knowledge Test.</b></p>	<p><b>User Centred Design</b></p> <p><b>Knowledge;</b> card paper, tools and equipment, health and safety.</p> <p><b>Designing and Making skills</b></p> <p><b>Designing</b></p> <p><b>Design a personal logo key ring and blister pack</b></p>	<p><b>User Centred Design</b></p> <p><b>Knowledge;</b> card paper, tools and equipment, health and safety.</p> <p><b>Designing and Making skills</b></p> <p><b>Making</b></p> <p><b>Knowledge Test.</b></p>
<b>Year 8 National Curriculum</b>	<p>5 main nutrients. Cereals.</p> <p><b>Commodities: bread, cereals, oats, rice</b></p> <p><b>Practicals – baked items</b></p>	<p>Ingredients in bread making. Energy balance / change. Hydration.</p> <p><b>Commodities: milk, cheese, yoghurt</b></p> <p><b>Practicals – macaroni cheese</b></p>	<p><b>Bio -mimicry</b></p> <p><b>Knowledge;</b> manufacturing, joining and finishing materials,</p> <p><b>Designing (research and design)</b> Gadget tidy</p>	<p><b>Bio -mimicry</b></p> <p><b>Knowledge;</b> manufacturing, joining and finishing materials,</p> <p><b>Make (Make and Evaluate)</b> Gadget tidy</p> <p><b>Knowledge Test.</b></p>	<p><b>Bio -mimicry</b></p> <p><b>Knowledge;</b> printing processes, special printing effects and scales of production</p> <p><b>Designing (research and design)</b> Design a logo and promotional material for the Olympics</p>	<p><b>Bio -mimicry</b></p> <p><b>Knowledge;</b> printing processes, special printing effects and scales of production</p> <p><b>Make (Make and Evaluate)</b> Create the final digital artwork.</p> <p><b>Knowledge Test.</b></p>
<b>Year 9 National Curriculum</b>	<p>Diet through Life. Sustainable food issues</p> <p><b>Commodities : meat, fish, poultry, eggs.</b></p> <p><b>Main meals</b></p>	<p>Vegetarianism. Nutritional analysis</p> <p><b>Commodities: Soya, tofu, beans, nuts and seeds</b></p> <p><b>Pastry making</b></p>	<p><b>Design Past and Present</b></p> <p><b>Knowledge;</b> social, moral and environmental issues.</p> <p><b>Designing (research and design)</b> desktop clock inspired by a design movement.</p>	<p><b>Design Past and Present</b></p> <p><b>Knowledge;</b> social, moral and environmental issues.</p> <p><b>Make (Make and Evaluate)</b> desktop clock</p> <p><b>Knowledge Test.</b></p>	<p><b>Design Past and Present</b></p> <p><b>Knowledge;</b> social, moral and environmental issues.</p> <p><b>Designing (research and design)</b> packaging design and a double page magazine layout.</p>	<p><b>Design Past and Present</b></p> <p><b>Knowledge;</b> social, moral and environmental issues.</p> <p><b>Make (Make and Evaluate)</b> the packaging and DTP the magazine layout <b>Knowledge Test.</b></p>

## DT KS4 Curriculum Overview

### GCSE Design and Technology Graphic Products

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 1
<b>Year 10 GCSE AQA</b>	Blister packaging Logo design CAD/CAM DTP	Drawing techniques isometric, oblique and perspective. Packaging project and magazine Advert  Mock Examinations	Packaging project and magazine Advert  Isle I of Wight music festival Typography and Graphical layout project	Isle I of Wight music festival Typography and Graphical layout project  CAD/CAM techniques and system and control.	Controlled Assessment Design task and Research Deadline.  Theory	Controlled Assessment Initial Design Ideas  CAD/CAM/Modelling
<b>Year 11 GCSE AQA</b>	Controlled Assessment Design Development  CAD/CAM/Modelling	Controlled Assessment Making (final Product)  CAD/CAM/Modelling	Controlled Assessment Evaluation  Theory and revision for examination	Exam Practice  Revision Sessions Themed question research		

### Food and Nutrition

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 1
<b>Year 10 GCSE EDUQAS Food preparation and Nutrition (9-1)</b>	Commodity based theory and practical. – varieties, provenance, functions in cooking, nutritional facts  <u>commodities: Eggs, flour, fats, raising agents, milk, sugar,</u>  <u>Practicals: Victoria sponge -aerating, macaroni cheese – sauce making, bread making,</u>	Nutrition: macro and micro nutrients, needs of different groups in society, deficiencies, energy needs, balanced diet.  <u>Commodities: meats, fruit and vegetables</u>  <u>Practicals: stirfry, cottage pie, vegetarian curry,</u>	The effect of cooking on food. Science investigations Food provenance Food manufacturing	Food spoilage Preparing high risk foods Making a balance diets / planning balance diets	Trialling NEA 1– The food investigation assessment: MOCK.  Trialling NEA 2 - The food preparation assessment. MOCK	Trialling NEA 1– The food investigation assessment: MOCK.  Trialling NEA 2 - The food preparation assessment. MOCK
<b>Year 11 GCSE EDUQAS Food Preparation and Nutrition (9-1)</b>	NEA 1 : exam board issues the first non-examined assessment – to be completed this half term	NEA 2: exam board issues the 2 <sup>nd</sup> NEA – to be completed in 12 weeks	Complete NEA	Exam Prep	Revision of exam techniques and practice Final Exam	

### GCSE Design and Technology Resistant Materials

	Autumn 1 H1	Autumn 2 H2	Spring 1 H1	Spring 2	Summer 1	Summer 1
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# DT KS4 Curriculum Overview



	Autumn 1 H1	Autumn 2 H2	Spring 1 H1	Spring 2	Summer 1	Summer 1
<b>Year 10 GCSE AQA</b>	Wood working techniques, theory and assessment of making skills. Wood Storage project	Drawing techniques  Mock Examinations	Casting techniques and metal work theory. Production processes and manufacturing techniques. Surf pendant Casting project	Plastics working techniques and theory. Alessi Gadget tidy CAD project  CAD/CAM techniques and system and control.	Controlled Assessment Design task and Research Deadline.  Theory	Controlled Assessment Initial Design Ideas  CAD/CAM/Modelling
<b>Year 11 GCSE AQA</b>	Controlled Assessment Design Development  CAD/CAM/Modelling	Controlled Assessment Making (final Product)  CAD/CAM/Modelling	Controlled Assessment Evaluation  Theory and revision for examination	Exam Practice  Revision Sessions Themed question research		

## GCSE Health and Social Care

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 1
<b>Year 10 GCSE AQA</b>	The Stages and pattern of human growth and development.  The different factors that can affect human growth and development.	The development of self concept and personal relationships.  Major life changes and how people deal with them.	The role of relationships in personal development.  Year 10 exam preparation.	Year 10 exam preparation.  Controlled Assessment Assignment 2 BP 1.	Controlled Assessment Assignment 2 BP 2	Controlled Assessment Assignment 2 BP 3
<b>Year 11 GCSE AQA</b>	Controlled Assessment Assignment 1 BP 1 & 2	Controlled Assessment Assignment 1 BP 3 & 4 & write up  Mock Exam preparation	Controlled Assessment Assignment 1 BP 5 & 6	Revision of all unit one material.	Revision of exam techniques and practice Final Exam	