

## Y4 Design and Technology

Design and Evaluate ( <b>DE</b> )	Making <b>(M)</b>	Cookery and Nutrition (CN)	
<b>DE 1-</b> I identify some of the great designers in all of the areas of study to generate ideas for designs.	M 1- Materials: I can measure and mark out to the nearest mm.	<b>CN 1-</b> I can prepare ingredients hygienically selecting and using appropriate utensils.	
<b>DE 2-</b> I can disassemble products to understand how they work.	M 2- Materials I can apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs)	CN 2- I can measure ingredients to the nearest gram.	
<b>DE 3-</b> I can collect information from a number of different sources and use this to inform design ideas in words, labelled sketches and models, keeping in mind fitness for purpose and the end user.	M 3- Textiles I can understand the need for a seam allowance	CN 3- I can assemble and cook ingredients.	
<b>DE 4-</b> I can make realistic step by step plans, reflecting on designs as the product develops.	M 4- Electricals and Electronics I can build models incorporating motors within the circuits.	CN 4- I can use a range of cooking techniques (controlling the temperature of the oven or hob, if cooking).	
<b>DE 5-</b> I can use ICT software to create alternatives for an initial design.	M 5- Construction I can join materials using suitable techniques (screwing)	CN 5- I can make healthy eating choices and explain why.	
<b>DE 6-</b> I can explain how the product is useful to the user.	M 6- Mechanics I can use pulleys, levers and linkages in my products.	CN 6- I can explain some of the processes that foods go through to preserve /make them more appealing.	
<b>DE 7-</b> I can refine work and techniques – evidencing and explaining the results of research as work progresses, continually evaluating the product design (use peer market research to evaluate and improve products at different stages of the design process)	M 7- Computing I can control and monitor models using software designed for this purpose.		

Autumn 1 Jungle Journey	Autumn 2 A Magical Place	Spring 1 Rotten Romans	Spring 2 Vicious Volcanoes	Summer 2 The Vile Victorians	Summer 2 Wonderful Water
	DE1	DE1	CN1	DE1	M1
	DE2	DE2	CN2	DE2	M2
	DE3	DE3	CN3	DE3	M7
	DE4	DE4	CN5	DE4	CN1
	DE6	DE5		DE5	CN2
	DE7	DE6		DE6	CN3
	M1	DE7		DE7	CN5
	M2	M1		M1	
	M4	M2		M2	
	M5	M4		M3	
	M6	M5		M5	



## Vocabulary

## **Designing, Evaluating, Making**

Explore, object, product, construct, deconstruct, design, existing designs, identify, purpose, audience (intended user), draw, sketch, label, computer software, select, tools, junior hacksaw, clamp, screw, screwdriver, materials, wood, card, paper, fabric, running stitch, back stitch, needle, thread, cotton, wheels, axles, suggest, evaluate, clear purpose, discuss, share, improve, fit for purpose, justify choice, adapt, refine, measure, cm, mm, designers, circuits, buzzers, bulbs, wires, cells, batteries

## **Cooking and Nutrition**

Hygiene, safe, balanced diet, protein, dairy, oils, fats, carbohydrates, fat, sugar, salt, recipe, measure, scales, grams (g), kilograms (kg), utensils, knife, teaspoon, tablespoon, temperature, centigrade, preserve, dried, dehydrate, tinned, frozen, pickled