

## YEAR 3 DESIGN & TECHNOLOGY CURRICULUM

Year 3 D&T - Broader Curriculum Aims and Objectives					
Key Themes	Topics of Study				
<ul> <li>Food Technology</li> <li>Mechanical Systems</li> <li>Structures</li> </ul>	<ul> <li>Eating seasonally - Making tarts.</li> <li>Levers and Sliders - Moving monsters</li> </ul>				
Key D&T Knowledge and Understanding	Sidble silocioles - Tre-histolic monoments     Vocabulary				
<ul> <li>Know that seasonality of food refers to the time of year when a given type of food is at its peak, either in terms of harvest or its flavour.</li> <li>Know that different parts of the world have different seasonal food.</li> <li>Know the benefits and problems with seasonal food being available in shops all year round.</li> <li>Know how to follow a recipe using seasonal ingredients.</li> <li>Know how to use a range of cooking utensils and equipment safely.</li> <li>Know that there is always an input and an output in a mechanism.</li> </ul>	Climate: Polar, Mediterranean, Temperate and Tropical, exported imported, nutrients, recipe, seasonal food, Exploded diagram, function, input, linkage, mechanism, motion, net, output, pivot, pneumatic system, thumbnail sketch. 2D/3D shapes, design criteric evaluation, façade, feature, net, recyclable, scoring, stable, strong weak, structure, tab. Accurate, applique, cross-stitch, decorate, detail, fabric, patch, running stitch, seam, stencil, stuffing, target audience.				
<ul> <li>Know that a lever is something that turns on a pivot, which enables things to move on a curve.</li> <li>Identify the parts in different linkage mechanisms.</li> <li>Know how simple linkages change the direction of motion.</li> <li>Know that the shape of a structure affects its strength.</li> <li>Know that the shape of materials can be changed to improve their strength and stiffness.</li> <li>Know how to turn 2D nets into 3D structures.</li> <li>Know that some frame structures are used to protect or hold things.</li> <li>Know that other materials can be added to them to help reinforce them.</li> </ul>	<section-header></section-header>	<section-header></section-header>			

Year 3 D&T - Broader Curriculum Aims and Objectives						
Progression of Skills / Disciplinary Knowledge						
Designing	Making	Technical Knowledge	Evaluating and Analysing	Cooking and Nutrition		
Understanding Contexts, Users and Purposes. Generating, developing, modelling and communicating ideas	Planning, Practical Skills and Techniques	Construction and Textiles	Own Ideas and Products Existing Products	Understand and apply the principles of nutrition and learn how to cook.		
<ul> <li>Show how a design meets a range of requirements.</li> <li>Begin to research others' needs</li> <li>Describe the purpose of a product.</li> <li>Follow a given design criteria.</li> <li>Have a least one idea about how to create a product.</li> <li>Create plans which show order, equipment and tools.</li> <li>Make design decisions.</li> <li>Explain how a product will work.</li> <li>Begin to use computers to show design.</li> </ul>	<ul> <li>Select suitable tools/ equipment; explain choices; begin to use them accurately.</li> <li>Select appropriate materials that are fit for purpose.</li> <li>Work through a plan in order.</li> <li>Consider how good a product will be.</li> <li>Begin to measure, mark out, cut and shape materials/components with some accuracy.</li> <li>Begin to assemble, join and combine materials and components with some accuracy.</li> <li>Apply a range of finishing techniques with some accuracy.</li> </ul>	<ul> <li>Use appropriate materials .</li> <li>Work accurately to make cuts and holes.</li> <li>Join materials.</li> <li>Begin to make strong structures.</li> <li>Select appropriate tools/ techniques.</li> <li>Alter a product after checking, to make it better.</li> <li>Begin to try new/different ideas.</li> <li>Use simple levers and linkages to create movement.</li> <li>Learn how to use a computer program to design and create a product.</li> </ul>	<ul> <li>Consider design criteria while designing and making.</li> <li>Use design criteria to evaluate a finished product.</li> <li>Suggest what could be changed to improve a product.</li> <li>Evaluate existing products considering: how well they have been made, materials, whether they work, how they have been made, if they are fit for purpose.</li> <li>Learn about some inventors/designers/ engineers/chefs/ manufacturers of ground-breaking products.</li> </ul>	<ul> <li>Carefully select ingredients.</li> <li>Use equipment safely.</li> <li>Make a product look aesthetically pleasing.</li> <li>Begin to understand that food comes for the UK and the wider world.</li> <li>Describe a varied diet in terms of healthy balance of food and drinks.</li> <li>Explain how food and drink are needed for active, healthy diets.</li> </ul>		

## **PRIOR LEARNING LINKS - D&T**

• Y2 Healthy Wraps- develop understanding of different food groups and healthy diets. Explore and use different combinations of ingredients to ensure the wrap tastes good and is heathy.



FUTURE LEARNING LINKS - D&T Y4 Alternative Biscuits-Learn new

techniques needed for preparing

and baking biscuit dough. Learn

prototype and make their own

biscuit prototype, experimenting

with different ingredients. Follow

about the importance of

and adapt a recipe.

Year 3 Design & Technology Unit of Learning: Let's Make a Seasonal Tart

**D&T School Theme:** Food and Nutrition

## Teaching Sequence for this Unit.

Why is home grown Where in the world Can we create a recipe Can we follow a recipe How successful was our best? does our food come using seasonal fruit and to make a tart? seasonal tart? from? vegetables? How does importing Why do some foods What is the best way to Did it taste as What ingredients will be food affect the come from different stay safe and be expected? used? environment? countries? hygienic when working Did it look appetising? How will it be prepared How does climate in a kitchen? Did it reflect a and cooked? Which UK fruits and affect food growth balanced diet? vegetables grown in around the world and How nutritious is our each season? in the UK? recipe? FN TK FN ТК FN TK FN Μ TK Ε ΤK D Α

Focus for Disciplinary Knowledge							
Designing	Making	Technical Knowledge	Evaluating and Analysing	Food and Nutrition			
Understanding Contexts, Users and Purposes. Generating, developing, modelling and communicating ideas	Planning, Practical Skills and Techniques	Construction, Textiles, Mechanical Systems and Electrical Systems	Own Ideas and Products Existing Products	Understand and apply the principles of nutrition and learn how to cook.			



