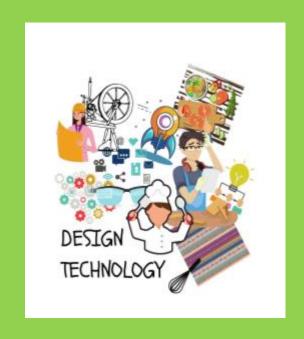
# Design & Technology Parent Workshop



# Who teaches DT? class teachers during MasterChef days and DT weeks.

Who leads science? Miss Lopuszniak Responsible for monitoring DT.



#### Design & Technology at Dean Field

At Dean Field we aim to provide all children with a range of activities that will help them investigate, plan, make and evaluate.

Undertaking design and technology activities in school will give our children opportunities to use a range of materials and processes, and to work independently or as part of a team.

We would hope that these activities undertaken would support them in the wider world.

#### DT taught at Dean Field



## Design and technology programmes of study: key stages 1 and 2

National curriculum in England

#### Purpose of study

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

### Teachers plan using the National Curriculum.

They use these objectives provided to plan exciting lessons to teach the children about design and technology.

#### DT Overview

Teachers use this overview designed to link to their current topics.

As you will see, your child will have a DT week themed or a food link to their current topic each half term.

Term	Autumn 1 (6 weeks)  MasterChef Day Celebration of class country foods	Autumn 2 (7 weeks) MasterChef Day	Spring 1 (7 weeks) DT Week	<u>Spring 2</u> (7 weeks) <u>MasterChef Day</u>	Summer 1 (5 weeks) MasterChef Day	Summer 2 (7 weeks) DT Week
Nursery	Class country/topic link: Antarctica making ice pops.  -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Topic: Jolly Xmas Christmas party/baking -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Topic: Antarctica Winter collages	Topic: Easter  Easter baking  -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Form themed fruit kebabs  -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Topic: Travel and transport  Travel and transport crafts
Reception	Class country/topic link: Mexico making tortilla wraps/nachos.  -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Topic: Celebration Celebration/party food decoration  -Food safety & hygiene -Food knowledge (Cooking & Nutrition)	Topic: Under the Sea Under the sea crafts	Topic: Growing/Easter Cress growing and Easter baking -Food safety & hygiene -Food knowledge (Cooking & Nutrition)	Topic: Dinosaurs Dinosaur themed fruit kebabs  -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Topic: Space Space box modelling

#### Year I and 2

Year 1	Class country/topic link: China making egg rice and noodles, -Food safety & hygiene -Food knowledge (Cooking & Nutrition)	Topic: Childhood Fruit salad -Healthy eating -Consumer awareness (Cooking & Nutrition)	Topic: It's good to be me Moving pictures (Mechanisms - levers & sliders)	Topic: Sensational Safari Safari Picnic Food  -Healthy eating -Consumer awareness  (Cooking & Nutrition)	Topic: Influential Individuals Tea party for influential individual  -Consumer awareness -Healthy eating  (Cooking & Nutrition)	Topic: Influential Individuals Bunting for Queen's celebration  (Textiles)
Year 2	Class country/topic link: Australia making chicken parmigiana.  -Food safety & hygiene -Food knowledge  (Cooking & Nutrition)	Topic: A walk in the park Dips & dippers -Consumer Awareness -Food knowledge (Cooking & Nutrition)	Topic: Circle of life Vehicle for farmer  (Mechanisms - wheels & axels)	Topic: Sensational Shibden Park picnic -Healthy eating -Consumer awareness (Cooking & Nutrition)	Topic: Fire, Fire! Soda-Bread Rolls -Healthy eating -Consumer awareness & topic Link (Cooking & Nutrition)	Topic: Sun, Sea and Sand Seaside Bandstand (Structures)

#### Year 3 and 4

	Class country/topic link: Poland making pierogi,	Topic: Romans Scone based pizza	Topic: Dinosaurs Dinosaur themed kites	Topic: American Adventures Pasta and Vegetable	Topic: Invaders & Settlers British tea party	Topic: Invaders & Settlers
m	-Food safety & hygiene	-Healthy eating	(Textiles)	Sauce		Anglo-Saxon village
Year	-Food knowledge	-Topic link - Roman		Tania Kab	-Healthy eating	
×	(Cooking Chinadalan)	feasts		-Topic link -Healthy eating	-Consumer awareness	(Structures)
	(Cooking & Nutrition)	(Cooking & Nutrition)		-Consumer awareness	(Cooking & Nutrition)	
	<b>⋖</b>	4	<u></u>	(Cooking & Nutrition)	4	esta.
	Class country/topic link:	Topic: Ancient Egypt	Topic: Antarctic	Topic: Stone Age	Topic: Bronze & Iron	Topic: Yorkshire
	Kenya making ugali with	-Tabbouleh (bulgur wheat with vegetables	Adventure Moving animals	Seasonal Spring Salad	Age	Moving bridge
l _	kachumbari.	with regulations	Moving animals	with Bread Plaits	Vegetable stew	Electrical systems with
7	-Food safety & hygiene	Topic link - Egyptian	(Mechanical systems -	-Topic link	-Consumer Awareness	crumble, series circuit
Year	-Food knowledge	foods, importance of the	levers & linkages)	-Consumer awareness	-Healthy Eating	and 2x sparkles/bulbs,
		Nile		-Food knowledge		
	(Cooking & Nutrition)	-Healthy eating		Continue ( National )	(Cooking & Nutrition)	(Electrical systems
	9	(Cooking & Nutrition)		(Cooking & Nutrition)	•	

#### Year 5 and 6

	Class country/topic link: Brazil making Brazilian carrot cake.	Topic: Water World Spiced tomato afghan	Topic: Space Brazilian headdress	Topic: Ancient Greece Greek salad with tzatziki	Topic: Biomes Edible garden locally	Topic: London Moving, light-up theatre
<u>س</u>	carrot cake,	pizza	linked to class country	and flat breads	Sourced	posters
Year						Electrical systems with
×		-Consumer awareness		-Consumer awareness	-Healthy Eating	crumble, series circuit
	-Food safety & hygiene	-Topic link - recapping		-Topic link	-Consumer awareness	with bulbs, switches and
	-Food knowledge	Islamic civilisation,	(Textiles)	(Cooking & Nutrition)	(Cooking & Nutrition)	motors)
	(Cooking & Nutrition)	(Cooking & Nutrition)			(	(Electrical systems
	Class country/topic link:	Topic: Crime &	T	Topic: Extreme Earth	Topic: If we could talk	T V9
	Ireland making Irish	Punishment	Topic: Extreme Earth	Italian Pizza	to animals	Topic: Viking
	stew.	Empanodas	Shelters		Falafel – vegan dish	
	31500,			-Topic/English link		Moving Viking boat
<u>ب</u>	-Food safety & hygiene	-Healthy eating		-Consumer Awareness -	-Consumer awareness -	
<u> </u>	-Food knowledge	-Topic link - prisoners'		food from around the	food choices, eg.	
Year	-Topic link with rationing	food		world	veganism	(Mechanical systems -
	-Consumer awareness	-Maths link - statistics		-Maths link -	-Healthy Eating and	gears, pulleys and cams)
				measurement & statistics	Science link - diet &	
	(Cooking & Nutrition)	(Cooking & Nutrition)		linked with rising agents	exercise	<b>☆</b>
	(Gooding of February)	1	(Structures)	1	1	
		9		(Cooking & Nutrition)	(Cooking & Nutrition)	- 50*

#### DT Progression of Skills

Teachers use a progression of skills document to ensure previous skills are built upon

in each year.

Design skills >

Key Vocabulary;

Build, make, design, construct, shape, mould, join, attach, tools, cut, stick, glue, push, pull, cook, bake, knead, mix, stir, pour, spread, fill, measure

Aspect	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design	Model using software to create simple designs (Purple Mash)	Use software to create designs (Purple Mash)  Design products	Begin to use software to design products Design with purpose	Use software to design and represent products Design with purpose	Design with the user in mind, motivated by the service & purpose a product will offer	Design with the user in mind, motivated by the service a product will offer.
For Computer Aided Designs – look at using Purple Mash (seeing Computing skills progression)  Take design inspiration from history	With support design products that have a clear purpose and an intended user.  Start to look at existing historical products and as a group say what they like and don't like about them.	that have a clear purpose and an intended user.  Look at existing objects and designs from the past to identify likes and dislikes of the designs.  Look at how products have been created	by identifying opportunities to design with support  Start to refine work and techniques as work progresses, by referring back to design brief and own designs.  Disassemble products to understand how they work  Begin to look at some of the great designers in specific area of the DT project	by identifying opportunities to design  Refine work and techniques as work progresses, continually evaluating the product design  Look at some designers in specific area of the DT project, and generate ideas for designs from what they have seen.	Make continual refinements to products  Begin to consider end result of the product, using art skills where possible.  Where appropriate, use computer aided designs to represent own designs.  Look at a range of the great designers in specific area of the DT project.  Generate ideas for designs from what they have seen, and begin to give reasons for their choices.	Make products through stages of prototypes, making continual refinements.  Ensure products have a high quality finish, using art skills where appropriate.  Where appropriate, use prototypes, cross- sectional diagrams and computer aided designs to represent designs  Combine elements of design from a range of inspirational designers throughout history.

#### DT Progression of Skills

Making skills >

Technical knowledge and making skills >

<u>Make</u>	Cut materials safely using	Measure and mark out to the nearest	Being to cut materials by		propriate nd shaping	Choose appr materials for	opriate constructing	Cut materials with precision and refine
Materials (apply throughout all specific DT techniques and processes)	provided tools (scissors)  Demonstrate a range of joining techniques (such as gluing, hinges o combining to strengthen).	Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and	selecting appropriate tools with support.	technique include course the perim material is slots or coursel by selection appropria	es that uts within neter of the (such as ut outs). erials ly and safely ing ate tools. and mark e nearest	and creating	products. the properties behind using	the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).  Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper).
Technical Knowledge  & Make  Structures	dril and ma	e materials to practise ling, screwing, gluing I nailing materials to ke and strengthen ducts.	Choose suitable techniconstruct products or items.  Strengthen materials usuitable techniques.	to repair			create product nailing, gluing, Choose approstrengthen an Understanding construction s	ge of practical skills to ts (such as cutting, , and sanding).  priate materials to d structure.  g that different shapes are stronger and to different tasks.

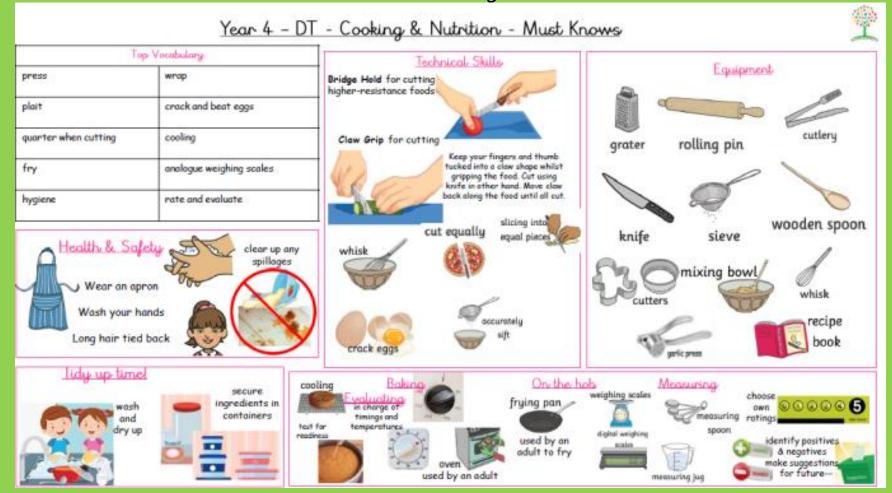
### DT Progression of Skills

Food skills >

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Food skills –	Shape	Shape	Shape	Shape & mould	Shape & mould		
Shape / mould	- foods by hand — gg long, thin shape - begin to shape with a light-weight rolling pin	- for a desired effect, eg. basic bread roll  - use a proper rolling pin	- with accuracy for a desired effect, eg. basic bread roll - use a rolling pin	to create visually appealing products     filling filo	- to create range of visually appealing products  - wrap (in pastry/filo)  - plaiting		
Food skills –	Mix/Stir	Mix/Stir	Mix/Stir	Mix/Stir	Mix/Stir	Mix/Stir	Mix/Stir
Mix / Stir	- loosely combine ingredients - mash ingredients together with fork	- to thoroughly combine ingredients  - whisk foods using fork  - knead dough  - beating eggs with support	- with increasing thoroughness to combine ingredients - whisk foods using fork - rub in fat to flour - knead dough - cracking & beating eggs with support	- range of ingredients to combine thoroughly - begin to whisk foods using a hand- whisk - cracking & beating eggs with support if needed	- any ingredients to combine thoroughly - confidently whisk foods using a hand- whisk (avoiding spillage) - cracking & beating eggs	- fold ingredients together carefully	- any combination of ingredients
Food skills –	Spoon	Spoon	Spoon	Spoon	Spoon	Spoon	Spoon
Spoon	- large ingredients between containers with support	- range of ingredients between containers with limiting support	- ingredients into different containers with increasing accuracy & minimal spillage	- use 2 spoons to transfer ingredients into different size/shape containers with minimal spillage — eg liquid mixture into baking cases - dividing ingredients out	- dividing ingredients out accurately and evenly	- able to gauge the quantities spooned to ensure an equal amount in each container	- any combination of ingredients into any container

#### Must Knows

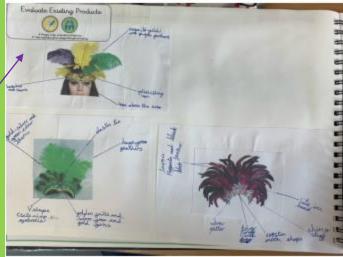
Teachers create must knows linked to each area of the DT curriculum to support the children in their learning. This also helps them to revise and remember. You will see these on your child's seesaw account.



#### DT Week in books

We evidence our DT work in big books throughout the year. This is an example of year 4 making Brazilian headdresses.

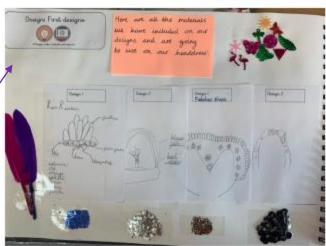
Evaluating designs



The state of the s

\_Testing materials

Design first design



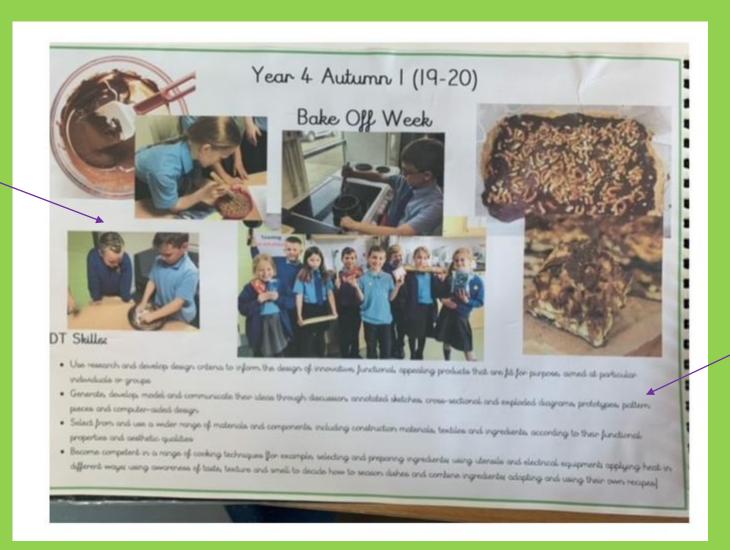


-Making

#### DT Cooking in Books

We evidence our MasterChef days in the big books too.

Pictures of our MasterChef cooking



Skills used

#### Assessments

Teachers use Target Tracker to monitor children's progress in DT. This helps the teach to plan efficiently and see what your child needs to improve in DT.

Band 4 (10 statements)	Band 5 (10 statements)
Cooking and Nutrition Understand what makes a healthy and balanced diet, and that different foods and drinks provide different substances the body needs to be healthy and active	Cooking and Nutrition Understand the main food groups and the different nutrients that are important for health
Cooking and Nutrition Understand seasonality and the advantages of eating seasonal and locally produced food	Cooking and Nutrition Understand how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable / tasty to eat
Cooking and Nutrition Read and follow recipes which involve several processes, skills and techniques	Cooking and Nutrition Select appropriate ingredients and use a wide range of techniques to combine them
Processes Use knowledge of existing products to design a functional and appealing product for a particular purpose and audience	Processes Use his/her research into existing products and his/her market research to inform the design of his/her own innovative product
Processes Create designs using exploded diagrams	Processes Create prototypes to show his/her ideas

### Can you help us?

Do you have a design or technology background?

Do you work in a field of DT?

Do you know someone who does?

We would love to build some links with parents to further our possibilities and give children context for their learning. If you have a background in any field of design and technology and would be willing to talk to one of our year groups about what a job in DT entails please email the school office.

We will be looking for anyone who can talk about a career in DT to talk at various points through the year; including during Science Week in March 2021.

Thank you for the taking the time to read this presentation. If you would like to hear more about the teaching of DT at Dean Field please ring the office and ask to speak to Miss Lopuszniak.

