

St Patrick's Catholic Primary School DT Curriculum



	Adver	nt Term	Lent Te	erm	Pentecost	Term
Foundation	Box modelling	Materials - using	Box modelling -	Materials -	Box modelling	Materials
stage 1	Joining	different	constructing	collage	Joining different	Joining materials
		construction	enclosures		materials and textures	and textures
		materials				
Foundation	Box modelling -	Materials - Textures	Box modelling -	Materials -	Box modelling -	Materials -
stage 2	Joining		Refining	collage	selecting appropriate	experiment with
					tools and explaining	design and explain
					process used	process used
Year 1	Structures		<mark>Textiles</mark>		Food	
	Constructing a		Puppets		Smoothies	
	windmill					
Year 2		<mark>Structure</mark>		Mechanisms		<mark>Mechanisms</mark>
		Chairs		Fairground		Making a moving
				wheel		monster
Year 3	<mark>Food</mark>		Digital world		Structures	
	Eating seasonally		Electronic charms		Constructing a castle	
Year 4		Structure		Mechanical		Electrical systems
		Pavilions		<mark>systems</mark>		Torches
				Making a		
				slingshot car		
Year 5	Electrical systems		Mechanical systems		Food	
	Greeting cards		Pop up books		What could be	
					healthier?	
Year 6		<mark>Textiles</mark>		Structure		Digital world
		Waistcoats		Playgrounds		CAD's



Topic Coverage
DT - Structures - Constructing Windmills
NC: Design and create their own structure and functioning windmill
DT - Textiles - Puppets
NC: Learn the different ways they can join fabrics together through the creation of a puppet
DT - Food - Fruit and vegetables
NC: Learn how to identify fruits and vegetables. Then apply this knowledge to design and make a smoothie
Topic coverage
DT - Structures - Baby bear's chair
NC: Experiment with different shapes and manipulate materials to explore and evaluate a range of structural properties. They apply this knowledge to their own design, make and test task
DT - Mechanisms - Fairground wheel
NC: Explore existing mechanisms in order to design, test and make their own big wheel style ride.
DT - Mechanisms - Making a moving monster
NC: Analyse existing levers and linkage systems to identify components that they can use to plan, design and develop a mechanical monster.
Topic Coverage
DT - Food - Eating seasonally

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	NC: Learn about seasonality and how the climate a food is grown in can alter the way it tastes and make a crumble and tart using seasonal ingredients.
Lent	DT - Digital world - electronic charm
	NC: Design, develop a program, house and promote a micro: bit electronic charm to use in low light conditions
Pentecost	DT - Structures - Constructing a castle
	NC: Learn more advanced construction techniques and plan for complex arrangements of structures with continual emphasis on evaluating throughout
Year 4	Topic Coverage
Advent	DT - Structure - Pavilions
	NC: Be introduced to pavilion architecture, pupils experiment with frame structures before designing their own landscape and pavilion using a wider range of materials and construction techniques.
Lent	DT- Mechanical systems - Making a slingshot car
	NC: Use kinetic energy to power slingshot cars, designing and making their own and testing their effectiveness
Pentecost	DT - Electrical systems - Torches
	NC: Be introduced to electricity and electrical safety before making a simple circuit to create a functioning torch.
Year 5	Topic Coverage
Advent	DT - Electrical systems - Electronic greetings cards
	NC: Explore electrical circuits and apply this knowledge to design and make their own electric greetings card
Lent	DT - Mechanical systems - Making a pop-up book
	NC: Utilise a range of mechanisms and construction techniques to create a pop up story book for younger children
Pentecost	DT - Food - What could be healthier

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	NC: Adapt a Bolognese recipe by adding or altering ingredients and learning and the ethical and hygienic issues of good
Year 6	Topic Coverage
Advent	DT - Textiles - Waistcoats
	NC: Learn how to measure, cut and assemble fabric to create a waistcoat. They will draw a design in accordance with their own design criteria
Lent	DT - Structure - playgrounds
	NC: Have the opportunity to be creative and experiment with a wide range of materials and equipment, applying prior knowledge of net and frame structures as well as bracing and cladding to design and make a playground
Pentecost	DT - Digital world - Navigating the world
	NC: Design and programme a navigation tool to produce a multifunctional device for trekkers using CAD 3D modelling software. Pitch And explain the product to a guest panel.



Progression in DT

Expressive arts and design: Being imaginative and expressive ELG: Invent, adapt and recount narratives and stories with peers and their teacher, sing a range of well know nursery rhymes and songs, perform songs, rhymes poems and stories with others and (when appropriate) try to move in time with music.					
Songs, mymes poen	3 & 4 year olds				
Advent	Lent	Pentecost			
 Know how to begin to use representation to communicate, e.g. drawing a line and saying 'That's me.' Know how to make-believe by pretending (starting to) Know how to take part in simple pretend play, using an object to represent something else even though they are not similar. 	 Know how to listen with increased attention to sounds. Know how to respond to what they have heard, expressing their thoughts and feelings. Know how to remember and sing entire songs. Know how to sing the melodic shape (moving melody, such as up and down, down and up) of familiar songs. Know how to notice what adults do, imitate what is observed and then do it spontaneously when the adult is not there. Know how to engage in imaginative role-play based on own first-hand experiences. 	 Know how to develop preferences for forms of expression. Know how to use movement to express feelings. Know how to create movement in response to music. Know how to sing to myself and makes up simple songs. Know how to sing the pitch of a tone sung by another person ('pitch match'). Know how to create their own songs, or improvise a song around one they know. Know how to make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park. Know how to develop complex stories using small world equipment like animal sets, dolls and dolls houses etc. (starting to) 			
	Reception				
Advent	Lent	Pentecost			



• Know how to sing to myself and makes up simple songs.	Knows how to develop preferences for forms of expression.	ELG: Being Imaginative and Expressive
• Know how to engage in imaginative role- play based on own first-hand	 Know how to use movement to express feelings. Know how to create movement in response to 	Children at the expected level of development will:
 experiences. Know how to notice what adults do, imitating what is observed and then 	 music. Know how to watch and talk about dance and performance art, expressing their feelings and 	 Invent, adapt and recount narratives and stories with peers and their teacher;
doing it spontaneously when the adult is not there.	 responses. Know how to explore and engage in music making 	 Sing a range of well-known nursery
• Know how to develop storylines in their pretend play.	and dance, performing solo or in groups.	rhymes and songs;
• Know how to build stories around toys, e.g. farm animals needing rescue from an armchair 'cliff'.		 Perform songs, rhymes, poems and stories with others, and -when appropriate -try to move in time with music.
• Know how to use available resources to create props to support role-play.		

Fine Motor Skills	s	Skil	otor	M	ine	F
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ELG: Hold a pencil effectively in preparation for fluent writing (using the tripod grip in almost all cases. Use a range of small tools, including scissors, paintbrushes, and cutlery, begin to show accuracy and care when drawing.

3 & 4 year olds				
Advent Lent Pentecost				
 Know how to use a fisted grasp or fist grip comfortably. Know how to use a palmer grasp and four-finger grip. 	 Know how to pick up tiny objects using a fine pincer grasp. Know how to make simple models using construction toys. 	 Know how to hold a pencil near the point between first two fingers and thumb and use it with good control Know how to start eating independently and learning how to use a knife and fork 		



	 Know how to use one-handed tools and equipment, for example, making snips in paper with scissors. Know how to use a comfortable grip with good control when holding pens and pencils. (Following the stages of grip development document) Know how to show a preference for a dominant hand. 	 Know how to be increasingly independent as I get dressed and undressed, for example, putting coats on and doing up zips Know how to use pincers, tweezers and threading equipment with increasing control and confidence. (Literacy)
	Reception	
Advent	Lent	Pentecost
• Know how to use a pincer grasp.	 Know how to show a preference for a dominant hand. Know how to develop their small motor skills so that they can use a range of tools competently, safely and confidently. Suggested tools: pencils for 	ELG: Fine Motor Skills Children at the expected level of development will:



drawing and writing, paint scissors, knives, forks and Know how to doubles the	d spoons for fluent writing -using the tripod grip in
 Know how to develop the a handwriting style which accurate and efficient 	
	 Begin to show accuracy and care when drawing.



	Substantive Knowledge	Disciplinary knowledge	Vocab
	Children will:	Children will know how to:	
Y1 Advent	Know what an axle is	How to make a stable structure	Windmill, structure,
DT - Structures -			support, design, axle,
Constructing	Know that axles are used in structures and	How to follow instructions to cut and assemble the	circle, turbine, stable,
Windmills	mechanisms to make parts turn in a circle	supporting structure of the windmill	assemble, cylinders, materials, instructions,
NC: Design and create their own	Know what a turbine is	How to assemble the components of the structure	components, test, freely, reinforce,
structure and functioning windmill	Know that windmill turbines use wind to turn and make the machines inside work	How to cut and assemble the turbine correctly	evaluate, adapt, design criteria
		How to attach the turbine to the axle and attach	
	Know and understand what stable means and ensure the structure has this property	them to the structure of the windmill	
		How to evaluate the project and adapt the design	
	Know that cylinders are a strong type of		
	structure that are often used for windmills and lighthouses	How to evaluate the windmill according to the design criteria	
	Know that the shape of materials can be	How to test whether the structure is strong and	
	changed to improve the strength and stiffness of structures	stable and reinforce it if necessary	
		How to test whether the turbine turns in the	
	Know about individual preferences and requirements in designs	structure and alter the parts if it doesn't	
		How to test whether the turbine turns freely in the	
	Know what a windmill is	wind/when blown on	
	Know about and describe the purpose of		
	structures		



Y1 Lent DT - Textiles - Puppets NC: Learn the different ways they can join fabrics together through the creation of a puppet	Know what a supporting structure is Know about the importance of clear design criteria Know that 'joining technique' means connecting two pieces of material together. Know that there are various temporary methods of joining fabric by using staples, glue or pins. Know and understand that different techniques for joining materials can be used for different purposes. Know and understand that a template (or fabric pattern) is used to cut out the same shape multiple times. Know that drawing a design idea is useful to see how an idea will look	Use a template to create a design for a puppet Cut fabric neatly with scissors Use joining methods to decorate a puppet Sequence steps for construction Reflect on a finished product, explaining likes and dislikes	decorate design fabric glue model hand puppet safety pin staple stencil template
Y1 Pentecost DT – Food – Fruit and vegetables	Know the names of a number of fruits and vegetables	Determine if something is a fruit Determine if a food is a fruit or a vegetable roots	Fruit Vegetable Seed
NC: Learn how to	Know that some foods we call vegetables are actually fruits	or stem	Leaf Root
identify fruits and	Know that fruit contain seeds and vegetables	Use senses to suggest fruits and or vegetables in a	Stem
vegetables. Then	do not. Vegetables are the root, stem or	drink	Smoothie
apply this knowledge	leaves.		Ingredients



to design and make a smoothie	Know that fruits and vegetables grow in one of three places: on trees or vines, above the ground, below the ground Know what a smoothie is and what a smoothie normally has in it/contains Know the importance of hand washing and washing fruit and vegetables before eating them Know how to safely prepare fruit and vegetables - peeling, slicing, chopping	Design a smoothie Use a knife to cut safely Use a blender Make a smoothie Follow instructions	Peeling Slicing Chopping Blender Flavour Design
	Substantive Knowledge Children will know:	Disciplinary knowledge Children will know how to:	Vocab
Y2 Advent	Know that shapes and structures with wide,	Generate and communicate ideas using sketching	design criteria
DT - Structures -	flat bases or legs are the most stable.	and modelling	man-made
Baby bear's chair		• Identify different types of structures, found in	natural
NC: Experiment with	Know and understand that the shape of a structure affects its strength.	 the natural world and in everyday objects Make a structure according to design criteria 	properties structure
different shapes and	sir ucrui e al lecis its strength.	• Create joints and structures from paper/card and	stable
manipulate materials	Know that materials can be manipulated to	tape	shape
to explore and	improve strength and stiffness.	Explore the features of structures	model
evaluate a range of		• Compare the stability of different shapes	test
structural properties.		• Test the strength of own structures	
They apply this		\cdot Identify the weakest part of a structure	



knowledge to their own design, make and test task	Know that a structure is something which has been formed or made from parts. Know that a 'stable' structure is one which is firmly fixed and unlikely to change or move. Know that a 'strong' structure is one which does not break easily. Know that a 'stiff' structure or material is one which does not bend easily	• Evaluate the strength, stiffness, and stability of own structure	
Y2 Lent DT - Mechanisms - Fairground wheel NC: Explore existing mechanisms in order to design, test and make their own big wheel style ride.	Know that mechanisms are a collection of moving parts that work together in a machine Know how a wheel Mechanism works Know how axels help wheels to move a Vehicle Know that materials have different properties. Know that bricks are made from clay, they are stiff and strong Know that wood comes from trees. It is strong and flexible Know that metal comes from ore, it is mined underground and it is strong and hard.	Select a suitable linkage system to produce the desired motions Design a wheel Select appropriate materials based on their properties Make linkages using card for levers and split pins for pivots Experiment with linkages adjusting the widths, lengths and thicknesses of card used Cut and assemble components neatly Select materials according to their characteristics Follow a design Brief Evaluate own designs against design criteria Use peer feedback to modify a final design Evaluate different designs Test and adapt a design	Design, design criteria, wheel, ferris wheel, pods, axle, axle holder, frame, mechanism



Y2 Pentecost	Know that mechanisms are a collection of	Identify mechanisms in everyday objects	Mechanical
DT - Mechanisms -	moving parts that work together in a machine		Output
Making a moving	51 5	Make linkages by connecting levers and pivots	Input
monster	Know that there is always an input and output	5, 5, 1	Pivot
	in a mechanism	Experiment making linkages by varying materials	Lever
NC: Analyse existing		and measurements of the levers	Linkage
levers and linkage	Know what an axel and a wheel are		Axle
systems to identify		Create a design meeting the design criteria	Wheel
components that they	Know what a pivot is		Design criteria
can use to plan,		Use mechanisms to make the features in my moving	
design and develop a	Know that a lever is something that turns on a	object	
mechanical monster.	pivot		
		Create a moving object using the design criteria	
	Know that a linkage is a system of levers that		
	are connected by pivots	Evaluate my design of a moving object	
	Know that linkages use levers and pivots to		
	create motion		
	Know what a design criteria is		
	Knowledge		Vocab
	Children will know:	Children will know how to:	
Y3 Advent	Know how climate affects food	Create a healthy and nutritious recipe for a savoury	hygiene, preparation,
DT – Food – Eating	growth	tart using seasonal ingredients, considering the	safe, climate, seasonal,
seasonally	Know safety rules when using cooking	taste, texture, smell, and appearance of the dish	environment, diet,
	equipment and handling food	Prepare themselves and a workspace to cook safely	natural, processed,
NC: Learn about	Know that imported foods travel	in, learning the basic rules to avoid food	reared, imported,
seasonality and how	from far away and this can negatively impact	contamination	texture, seasonal,
the climate a food is	the environment	Follow the instructions within a recipe	taste, smell, nutritious,
grown in can alter the	Know that vegetables and fruit		contamination,



way it tastes and make a crumble and tart using seasonal ingredients.	grow in certain seasons Know that each fruit and vegetable give us nutritional benefits Know some fruits and vegetables that are grown in the UK in the UK climate Know where our food comes from	Establish and use design criteria to help test and review dishes Describe the benefits of seasonal fruits and vegetables and the impact on the environment Suggest points for improvement when making a seasonal tart Use cooking equipment safely and hygienically Chop fruit and vegetables using a knife	instructions, hygienically, chop, workspace, evaluate, improvement, design criteria
Y3 Lent DT - Digital world - electronic charm NC: Design, develop a program, house and promote a micro: bit electronic charm to use in low light conditions	 Know key product developments that have occurred as a result of the digital revolution Know that in programming a 'loop' is code that repeats something again and again until stopped. Know that a Micro:bit is a pocket-sized, codeable computer. Know that writing a program to control (button press) and/or monitor (sense light) will initiate a flashing LED algorithm. Know what a pouch is and its key features Know what functional means 	Problem solve by suggesting potential features on a Micro: bit and justifying my ideas Develop design ideas for a technology pouch Draw and manipulate 2D shapes, using computer- aided design, to produce a point of sale badge Use a template when cutting and assembling the pouch Follow a list of design requirements Select and use the appropriate tools and equipment for cutting, joining, shaping and decorating a foam pouch Apply functional features such as using foam to create soft buttons Analyse and evaluating an existing product Identify the key features of a pouch	Smart wearables, product design, digital revolution, technology, analogue, digital, feature, function, digital world, Micro:bit, electronic products, program, loops, initiate, simulator, control, monitor, sense, template, develop, fasten, test, user, CAD (computer aided design), point of sale, display, badge, stand, net, product, design requirements, layers
Y 3 Pentecost DT - Structures - Constructing a castle	Know the importance of strength and stiffness in structures	Design a castle with key features to appeal to a specific person/purpose Draw and label a castle	Castle, turret, moat, flag, tower, gatehouse, drawbridge,



	Know the features and their purpose of a	design using 2D shapes, labelling: -the 3D shapes	battlements, curtain
NC: Learn more	castle: flags, towers, battlements, turrets,	that will create the features - materials	walls, 3d, 2d, shape,
advanced	curtain walls, moat, drawbridge, and	need and colours	net, tab, scoring,
construction	gatehouse	Design and/or decorate a castle tower on CAD	stable, structure
techniques and plan	Know suitable materials to be selected and	software	
for complex	used for a castle, considering weight,	Construct a range of 3D geometric shapes	
arrangements of	compression, tension	using nets	
structures with	Know that wide and flat based objects	Create special features for individual designs	
continual emphasis on	are more stable	Make facades from a range of recycled materials	
evaluating throughout	Know what strut, tie, span, beam mean	Evaluate own work and the work of others based on	
	Know difference between a frame and shell	the aesthetic of the finished product and in	
	structure	comparison to the original design	
	Know that Windsor castle is the largest	Suggest points for modification of the	
	castle in England	individual designs	
	Knowledge	Skills	Vocab
Y4 Advent	Know that pavilions are a decorative buildings	Design a stable pavilion structure that is	Design criteria,
	or structures for leisure activities	aesthetically pleasing and selecting materials to	natural, structure,
DT - Structure -	Know what a frame structure is	create a desired effect	innovative, 3d shapes,
Pavilions	Know that there are different ways to	Build frame structures designed to support weight	reinforce, cladding
	assemble a frame structure	Create a range of different shaped frame	
NC: Be introduced to	Know that a free-standing structure is one	structures	
pavilion architecture,	that can stand on its own	Make a variety of free-standing frame structures	
pupils experiment	Know that cladding can be applied to	of different shapes and sizes	
with frame	structures for different effects	Select appropriate materials to build a strong	
with frame			
structures before	Know that aesthetics are how a product looks	structure and for the cladding	
structures before designing their own	Know that aesthetics are how a product looks Know that a products function means its	Reinforce corners to strengthen a structure	
structures before		Reinforce corners to strengthen a structure Create a design in accordance with a plan	
structures before designing their own	Know that a products function means its	Reinforce corners to strengthen a structure	



construction		Describe what characteristics of a design and	
techniques.		construction make it most effective	
		Consider effective and ineffective designs	
Y4 Lent	Know that products change and evolve over	Design a shape that reduces air resistance	Chassis, energy,
DT- Mechanical	time	Draw a net to create a structure from	kinetic, mechanism, air
systems - Making a	Know that all moving things have kinetic	Choose shapes that increase or decrease speed as a	resistance, design,
slingshot car	energy	result of air resistance	structure, graphics,
	Know that kinetic energy is the energy that	Personalise a Design	research, model,
NC: Use kinetic	something (object person) has by being in	Measure, mark, cut and assemble with increasing	template
energy to power	motion	accuracy	
slingshot cars,	Know that air resistance is the level of drag	Make a model based on a chosen design	
designing and making	on an object as it is forced through the air.	Create different textural effects with materials	
their own and testing	Know and understand that the shape of a	Evaluate the speed of a final product based on: the	
their effectiveness	moving object will affect how it moves due to	effect of shape on speed and the accuracy of	
	air resistance	workmanship on performance	
Y4 Pentecost	Know what electricity is	Identify electrical products	Battery
DT - Electrical			Series Circuit
systems - Torches	Know some everyday items that use	Create a simple series circuit with a switch	Conductor
	electricity		Insulator
NC: Be introduced to		Identify the features of a torch	Switch
electricity and	Know that a battery contains stored		Electricity
electrical safety	electricity and can be used to power products	Understand how a torch works	Torch
before making a			Housing
simple circuit to	Know that a conductor is a material that lets	Analyse and evaluate different torches	Reflector
create a functioning	electricity travel through it		Target audience
torch.		Understand what is important in torch design	Design criteria
	Know that an insulator is a material that		Design
	electricity cannot pass through	Know how to design a torch to fit needs of user	
		Know how to evaluate my torch design	



	Know what a simple series circuit with a switch is and how to make it Know what a torch is and its features Know what a target audience is Know how to build a circuit and housing for my torch design		
	Knowledge	Skills	Vocab
Y5 Advent DT - Electrical systems - Electronic greetings cards NC: Explore electrical circuits and apply this knowledge to design and make their own electric greetings card	Know the key components used to create a functioning circuit Know that copper is a conductor and can be used as part of a circuit Know that breaks in a circuit will stop it from working Know how a series circuit will work in my card Know the negative and positive leg of an LED Know the symbols used in a circuit diagram Know who Sir Rowland Hill was and what he invented.	Design an electronic greetings card with a copper track circuit and components Create a labelled circuit diagram showing positive and negative parts in relation to the LED and the battery Write a design criteria for an electronic greeting card Compile a mood board relevant to my chosen theme, purpose, and recipient Make a functional series circuit Create an electronics greeting card, referring to a design criteria Map out where different components of the circuit will go Evaluate a peer's product against design criteria and suggesting modifications that could be made to improve the reliability or aesthetics of it or to incorporate another type of circuit component Analyse and evaluate a range of	Greeting card, purpose, seasonal, commemorative, sentimental, personalised, development, commercial, Sir Rowland Hill, invention, Penny Black stamp, bespoke, mass production, design brief, design criteria, circuit, components, series circuit, LED, battery, Negative, positive, LED, copper, conductor, Mood board, theme, recipient, series circuit, evaluate,





		existing greeting cards.	improve, reliability, aesthetics, modifications
Y5 Lent	Know that an input is the motion used to start	Design a pop-up book which uses a mixture of	Design, input, motion,
	a mechanism	structures and mechanisms	mechanism, criteria,
DT - Mechanical	Know that an output is the motion that	Name each mechanism, input and output accurately	research, reinforce,
systems - Making a	happens as a result of starting the input	Storyboard ideas for a book	model
pop-up book	Knowing that mechanisms control movement	Follow a design brief to make a pop up book, neatly	
	Know mechanisms that can be used to change	and with focus on accuracy	
NC: Utilise a range of	one kind of motion into another	Make mechanisms and/or structures using sliders,	
mechanisms and	Know how to use sliders, pivots and folds to	pivots and folds to produce movement	
construction	create paper-based mechanisms	Use layers and spacers to hide the workings of	
techniques to create	Know that a design brief is a description of	mechanical parts for an aesthetically pleasing result	
a pop up story book	what I am going to design and make.	Evaluate the work of others and receiving feedback	
for younger children		on own work	
		Suggest points for improvement	
Y5 Pentecost	Know where food comes from - learning that	Adapt a traditional recipe, understanding that the	Beef, reared,
	beef is from cattle and how beef is reared	nutritional value of a recipe alters if you remove,	processed, ethical,
DT – Food – What	and processed	substitute or add additional ingredients	diet, ingredients,
could be healthier	Know what constitutes a balanced diet	Write an amended method for a recipe to	supermarket, farm,
	Know how to adapt a recipe to make it	incorporate the relevant changes to ingredients	balanced
NC: Adapt a	healthier	Design appealing packaging to reflect a recipe	
Bolognese recipe by	Know how to use a nutritional calculator to	Cut and prepare recipes safely	
adding or altering	see how healthy a food option is	Use equipment safely, including knives, hot pans and	
ingredients and	Know that a balanced diet consists of	hobs	
learning and the	measured amounts of different foods to keep	Avoid cross-contamination	
ethical and hygienic	us healthy.	Follow a step by step method carefully to make a	
issues of good	Know the different food groups are dairy,	recipe	
	fruits and vegetables, protein, carbohydrates,	Identify the nutritional differences between	
	fats and sugars.	different products and recipes	



	Know that eating the right mix of nutrients will help your body grow and develop, many foods have labels which tell you the amount of each nutrient it has. Know that cross contamination means that bacteria and germs have been passed onto ready-to-eat-foods and it happens when these foods mix with raw meat or unclean objects. Know that it is important to know how to avoid cross-contamination to keep safe when preparing and cooking different foods. Know that in farming, it is important that the animals are cared for properly during their lifetime. There are ethical rules which ensure that the animals receive a good level of welfare.	Identify and describe healthy benefits of food groups	
	Knowledge	Skills	Vocab
Y6 Advent	Know what a waistcoat is	Design a waistcoat in accordance with specification	Annotate, decorate,
DT - Textiles -	Know that King Charles I was the first person	linked to set of design criteria to fit a specific	design criteria, fabric,
Waistcoats	to have a waistcoat designed for them in 1630	theme	target customer,
	Know what the length and width are	Annotate designs	waistcoat, waterproof
NC: Learn how to	Know how to accurately mark fabric	Use a template when pinning panels onto fabric	
measure, cut and	Know what a running stitch is	Mark and cut fabrics accurately, in accordance with	
assemble fabric to	Know how to secure the thread in place	a design	
create a waistcoat.	Know different decorative stitches	Sew a strong running stitch, making	
They will draw a	Know what a fastening is	small, neat stitches and following the edge	
design in accordance	Know the importance of consistently sized	Tie strong knots	
	stiches	Sew accurately with regularity of stitches	



with their own design criteria Y6 Lent DT - Structure - playgrounds NC: Have the opportunity to be creative and experiment with a wide range of materials and equipment, applying prior knowledge of net and frame structures as well as bracing and cladding to design and make a playground	Know that structures can be strengthened by manipulating materials and shapes Know what the shell structures are in everyday life (cars, aeroplanes, tins, cans) Know the difference between man-made and natural structures Know that there are many types of apparatus in a playground such. Slide. Swing, monkey bars, tree house, tunnel Know that a prototype is a cheap model to test a design idea Know that in the real world, design can impact users in a positive and negative ways	Decorate a waistcoat -attaching objects using thread and adding a secure fastening Evaluate work continually as it is created Design a playground featuring a variety of different structures, giving careful consideration to how the structures will be used, Consider effective and ineffective designs Build a range of play apparatus structures drawing upon new and prior knowledge of structures Measure, mark and cut wood to create a range of structures Use a range of materials to reinforce and add decoration to structures Improve a design plan based on peer evaluation Test and adapt a design to improve it as it is developed Identify what makes a successful structure	Apparatus, design criteria, equipment, playground, landscape features, cladding
Y6 Pentecost DT - Digital world - Navigating the world NC: Design and programme a navigation tool to produce a	Know that a design brief is an important document that outlines your design project so the client understands exactly what to expect will be delivered and the timescales Know that a client is a person or company who have requested a service or job from someone to complete a specialist task	Develop a concept and design criteria to fulfil the needs of a client Explain the key functions in the program used to fit the design criteria Consider appropriate materials and their function	Design brief Design criteria Concept Pitch Function Functional Feature Client



multifunctional		Develop a 3D CAD model	Convince
device for trekkers	Know that the features of design criteria are		3D CAD
using CAD 3D	the specific goals that a project must achieve	Develop a presentation to explain the key functions	Model
modelling software.	to be successful	of their design, material choices through a	Program
Pitch And explain the		functional program	
product to a guest	Know what a 3D CAD model is		
panel.		Evaluate my design	
	Know that a pitch is a presentation that		
	attempts to persuade		