Termly Curriculum Learning Overview 2022-23

Year: Whole School Term: Autumn Subject: Design and Technology

Key Elements	Nursery CONSTRUCTION	UFS CONSTRUCTION	Year 1 CONSTRUCTION: Mechanisms	Year 2 CONSTRUCTION: Shell Structures	Year 3 TEXTILES	Year 4 CONSTRUCTION: Shell structures	Year 5 FOOD TECHNOLOGY	Year 6 CONSTRUCTION: Mechanisms
	Brief: To design and make a diya to help someone celebrate Diwali.	Brief: To design and make a firework decoration for Bonfire night.	Brief: To design and make a moving picture Christmas card to give to a family member.	Brief: To design and make a boat to be used to help people escape from the Great Fire of London.	Brief: To design and make a fabric Christmas tree decoration, to be given to a family member as a gift.	Brief: To design and make the packaging for a new confectionary product, to be sold in supermarkets.	Brief: To design and make a Mexican street food dish which could be eaten at a Christmas party.	Brief: To design and make a marble run to be played with by primary schoolaged children.
				Focus Designer/Case study: Isambard Kingdom Brunel - ship designer	Focus Designer/Case study: Japanese Kawaii style	Focus Designer/Case study: Iconic Food Packaging	Focus Designer/Case study: Thomasina Miers – chef and restaurant chain owner (Wahaca)	Focus Designer/Case study: Mechanical Engineers (suggested: Archimedes, Edmund Cartwright, George Stephenson)
EYFS/NC PoS	Birth to three -	Physical Development	Design	Design	Design	Design	Design	Design
	Babies, toddlers and	ELG: Fine Motor Skills	design purposeful,	design purposeful,	use research and	use research and	use research and	use research and
	young children will be	Children at the	functional, appealing	functional, appealing	develop design criteria	develop design criteria	develop design criteria	develop design criteria to
	learning to:	expected level of	products for themselves	products for themselves	to inform the design of	to inform the design of	to inform the design of	inform the design of
	 Explore different materials, using all their 	development will: - Hold a pencil	and other users based on design criteria	and other users based on design criteria	innovative, functional, appealing products that	innovative, functional, appealing products that	innovative, functional, appealing products that	innovative, functional, appealing products that
	senses to investigate	effectively in	• generate, develop,	• generate, develop,	are fit for purpose,	are fit for purpose,	are fit for purpose,	are fit for purpose, aimed
	them.	preparation for fluent	model and	model and	aimed at particular	aimed at particular	aimed at particular	at particular individuals or
	Manipulate and play	writing – using the	communicate	communicate	individuals or groups	individuals or groups	individuals or groups	groups
	with different materials.	tripod grip in almost all	their ideas through	their ideas through	• generate, develop,	• generate, develop,	• generate, develop,	• generate, develop,
	Use their imagination	cases;	talking, drawing,	talking, drawing,	model and	model and	model and communicate	model and communicate
	as they consider what	- Use a range of small	templates, mock-ups	templates, mock-ups	communicate their	communicate their	their ideas through	their ideas through
	they can do with	tools, including scissors,	and, where appropriate,	and, where appropriate,	ideas through	ideas through	discussion, annotated	discussion, annotated
	different materials.	paint brushes and	information and	information and	discussion, annotated	discussion, annotated	sketches, cross-sectional	sketches, cross-sectional
	 Make simple models 	cutlery;	communication	communication	sketches, cross-	sketches, cross-	and exploded diagrams,	and exploded diagrams,
	which express their	- Begin to show	technology	technology	sectional and exploded	sectional and exploded	prototypes, pattern	prototypes, pattern pieces
	ideas	accuracy and care when	Make	Make	diagrams, prototypes,	diagrams, prototypes,	pieces and computer-	and computer-aided
		drawing.	 select from and use a 	 select from and use a 	pattern pieces and	pattern pieces and	aided design	design
	3 and 4 year olds will		range of tools and	range of tools and	computer-aided design	computer-aided design	Make	Make
	be learning to:	Expressive Arts and	equipment to perform	equipment to perform	Make	Make	 select from and use a 	 select from and use a
	Explore different	Design	practical tasks [for	practical tasks [for	• select from and use a	select from and use a	wider range of tools and	wider range of tools and
	materials freely, in	ELG: Creating with	example, cutting,	example, cutting,	wider range of tools	wider range of tools and	equipment to perform	equipment to perform
	order to develop their	Materials	shaping, joining and	shaping, joining and	and equipment to	equipment to perform	practical tasks [for	practical tasks [for
	ideas about how to use	Children at the	finishing]	finishing]	perform practical tasks	practical tasks [for	example, cutting,	example, cutting, shaping,
	them and what to make.	expected level of	 select from and use a wide range of materials 	 select from and use a wide range of materials 	[for example, cutting,	example, cutting, shaping, joining and	shaping, joining and finishing], accurately	joining and finishing], accurately
	Develop their own	development will: - Safely use and explore	and components,	and components,	shaping, joining and finishing], accurately	finishing], accurately	• select from and use a	select from and use a
	ideas and then decide	a variety of materials,	including construction	including construction	• select from and use a	• select from and use a	wider range of materials	wider range of materials
	which materials to use	tools and techniques,	materials, textiles and	materials, textiles and	wider range of	wider range of materials	and components,	and components, including
	to express them.	experimenting with	ingredients, according	ingredients, according	materials and	and components,	including construction	construction materials,
	Join different	colour, design, texture,	to their characteristics	to their characteristics	components, including	including construction	materials, textiles and	textiles and ingredients,
	materials and explore	form and function;	Evaluate	Evaluate	construction materials,	materials, textiles and	ingredients, according to	according to their
	different textures.	,			textiles and ingredients,	ingredients, according	their functional	. 5

	Create closed shapes with continuous lines, and begin to use these shapes to represent objects. The three characteristics of effective teaching and learning are all extremely relevant in the implementation of the DT curriculum: playing and exploring children investigate and experience things, and 'have a go' active learning - children concentrate and keep on trying if they encounter difficulties, and enjoy achievements creating and thinking critically - children have and develop their own ideas, make links between ideas, and develop strategies for doing things	- Share their creations, explaining the process they have used; The three characteristics of effective teaching and learning are all extremely relevant in the implementation of the DT curriculum: • playing and exploring - children investigate and experience things, and 'have a go' • active learning - children concentrate and keep on trying if they encounter difficulties, and enjoy achievements • creating and thinking critically - children have and develop their own ideas, make links between ideas, and develop strategies for doing things	explore and evaluate a range of existing products evaluate their ideas and products against design criteria Technical Knowledge explore and use mechanisms [for example, levers, sliders, wheels and axels], in their products	explore and evaluate a range of existing products evaluate their ideas and products against design criteria Technical Knowledge build structures, explaining how they can be made stronger, stiffer and more stable	according to their functional properties and aesthetic qualities Evaluate • investigate and analyse a range of existing products • evaluate their ideas and products against their own design criteria and consider the views of others to improve their work • understand how key events and individuals in design and technology have helped shape the world	to their functional properties and aesthetic qualities Evaluate investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work understand how key events and individuals in design and technology have helped shape the world Technical knowledge apply their understanding of how to strengthen, stiffen and reinforce more complex structures	properties and aesthetic qualities Evaluate investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work understand how key events and individuals in design and technology have helped shape the world	functional properties and aesthetic qualities Evaluate investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work understand how key events and individuals in design and technology have helped shape the world Technical knowledge apply their understanding of how to strengthen, stiffen and reinforce more complex structures understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
Vocabulary	Subject Specific design Content Specific materials card	Subject Specific designer Content Specific materials tools	Subject Specific designer brief product Content Specific moving picture mechanism	Subject Specific brief product user Content Specific engineer hull	Subject Specific product user technology Content Specific Kawaii pattern piece	Subject Specific consumer modification (previous subject vocab will also need referencing) Content Specific	Subject Specific technique production (previous subject vocab will also need referencing) Content Specific	Subject Specific innovation application of knowledge (previous subject vocab will also need referencing) Content Specific
	join	join	lever slider pivot	float buoyant water-proof	whip stitch stuffing component	net score computer-aided design (CAD) graphic design shelf-appeal	spices tortillas tacos street food cross-contamination	friction gravity mechanical engineer angle gradient
Key questions / knowledge and facts to be recalled	What is a design? A design is a drawing of what you are going to make. Why is it a good idea to draw a design before making something?	What is a designer? A designer is someone who decides on something that they want to make, then draws a picture of it, then makes it! Designers use their imagination and have to try and solve problems.	What kind of designs are found on Christmas cards? Common designs include Santa, reindeer, angels, Christmas Trees etc. [This question should be posed to children and answered	Who was Isambard Kingdom Brunel and what did he design? Brunel was a very talented and famous engineer who lived and worked in Britain 200 years ago. An engineer is a person who designs and builds useful things	What is Japanese Kawaii style? Kawaii means 'cute' in Japanese. It has become a popular style in Japan and across the world, and Kawaii characters can be found in cartoons, toys, games	What is package design? Package design is the creation of a container or wrapper for a product to be sold in. A package designer needs to think about the material, shape and	Who is Thomasina Miers? Thomasina Miers is a chef and restaurant owner from London, she is 45 years old. She became famous after winning a TV cookery programme called Masterchef in 2005.	What is a marble run? A marble run is a model consisting of a series of tracks/rails/chutes that allow a marble to roll down them until it reaches the bottom. Marble runs are usually sold as children's toys.

It's a good idea to create a design so that you can plan what you are going to do. Your work might turn out better if you have made a plan.

What are materials? Materials are the things you will use to make your product, for example paper, string, wood, card.

How can we join things together? Joining means sticking two things together. You can use things like glue, tape, paper clips and string to join things. When we do DT we are all designers!

What are materials and tools?

Materials are the things you will use to make you product, such as paper, wood and straws. Tools help you to do something, like scissors help you to cut and a pencil helps you to draw.

How can we join materials together?
We can use different joining materials to join things together, like glue, tape, paper clips and string. You need to think about which joining material will work best for your product, to ensure it is strong and won't come

apart.

re through their own ideas/after research].

What is a moving picture? In a moving picture some parts can move, which brings the picture to life and makes it more fun/interesting.

What is a mechanism?
A mechanism is something with moving parts that do something. In a moving picture, the moving parts are fixed to the background, but have a mechanism which lets them move.

What is a lever/pivot?
A lever is a stick or long piece of card, which is fixed to the background with a split pin. The pin lets it turn around - this turning point is called a pivot. A moving part on a lever mechanism will move in a circular or an arch shape.

What is a slider?
A <u>slider</u> is a mechanism which can move up and down or from left to right in a straight line. A slit is cut in the background, then a picture on a stick is inserted, which can slide back and forth along the slit.

like machines or structures. Brunel designed tunnels, bridges and railways. He also designed huge ships which sailed all over the world. His designs helped people and changed Britain.

What is the hull of a boat?
The hull is the main body of a boat – the bottom/sides/deck.

What are the design

features of boats?
To be explored/
discussed by children
during research – e.g.
they need to float, they
need to be stable, some
have sails, some have
oars, they have places
for people/cargo etc.

How can we test if a material is buoyant and waterproof?
To be completed as a Science investigation by placing a variety of materials into water e.g. wood, paper, fabric, foil, plastic bottles etc.

Which materials are most suitable to make a boat? To be determined by outcome of experiment. and on clothing and accessories.

How can a textile designer create a Kawaii-style design? Kawaii characters usually have bright colours, simple shapes, large heads, wide-set eyes and button noses/small mouths.

What is a pattern piece?
A pattern piece is a paper template which is used to then cut out fabric pieces.

What are textile components?
Textile components are things which can be added onto textile products. Some are for decoration and some have a function.

What is whip stitch?
Whip stitch is often
used for closing up the
sides of something. The
needle is passed in and
out of the fabric in a
series of stitches that
circle an edge/edges of
the fabric



decoration used on the packaging.

What is graphic design? Graphic design is the text and pictures found on things such as adverts, labels and packaging.

What is meant by 'shelf-appeal' and why is it important?
Shelf appeal means that a product stands out when you see it on the shelf in a shop: it looks appealing so consumers want to buy it, rather than a different product. Designers need to consider shelf appeal when designing the packaging for a product

How is a box net created? A box net is a flat drawing of the faces of a 3D shape, which can be cut out and folded to make that 3D shape. It will include tabs, which are used to stick it together more easily. Some of the lines of the net will need to be scored. Scoring means scratching a line along the surface of the paper, to allow it to be folded more easily/ accurately.

What is computer-aided design?
Computer-aided design (CAD) is using a computer to help you create a design. For example, you could use drawing software such as Microsoft Paint to help you to draw your

Despite being British, she has a passion for Mexican cuisine, and she owns a chain of Mexican street food restaurants called Wahaca:
https://www.wahaca.co.uk/mexican-menu-full/

What is street food?
Street food is food
cooked and sold in the
streets, for people to eat
immediately, on the go.
Mexico is famous for its
street food, called
'antojitos' in Spanish,
which means 'little
cravings'. Typical
Mexican street foods
include tacos,
empanadas, tamales,
quesadillas and nachos.

What are tacos? Tacos are a popular Mexican street food dish. They are made of a small wheat or corn tortilla with a variety of fillings. The tortilla is known as a taco 'shell' and can be hard or soft. Fillings include meat, fish, cheese and beans. Tacos are topped with sauces and garnish such as salsa, guacamole, sour cream, salad and fresh coriander.

What spices are found in Mexican cuisine?
A spice is a dried, ground part of a plant that adds flavour to food. The spices used most in Mexican cuisine are coriander, cumin, cayenne pepper, chipotle chilli powder, oregano, garlic powder, onion powder.

What is a mechanical engineer? A mechanical engineer designs and makes mechanical systems (a mechanical system is a machine with moving parts that are acted upon by a force and create an output that does something useful) or machines. They need an understanding of the science of mechanics and principles of Mathematics, which is then applied to create useful things. When designing and making your marble run, you will become a mechanical engineer. You will need to think about what you know about friction and gravity, and also apply your knowledge of angles from Maths, in order to create a successful product.

How have mechanical engineers changed the world we live in throughout history? Innovations in mechanical engineering have impacted hugely on the world we live in and made human tasks and activities easier and more effective. Archimedes (Archimedes screw, weapons, pulley systems) **Edmund Cartwright** (power loom) George Stephenson (railways)

What is gravity and why does a mechanical engineer need to consider its action?
Gravity is an invisible force that pulls objects toward each other. Earth's gravity

						design neatly and	What is cross-	is what keeps you on the
						accurately.	contamination?	ground and what makes
							Cross contamination is	things fall. In a marble run,
							where bacteria are	gravity is what makes the
							transferred from one	marbles roll downwards.
							substance to another.	The stronger the force of
							Bacteria can be	gravity, the quicker the
							transferred from people	marble will roll. Applying
							to food, from equipment	this scientific knowledge
							to food, or from raw to	will allow for the creation
							cooked food. It is very	of a better product.
							important to keep raw	•
							and cooked foods,	What is friction and why
							especially meats, apart.	does a mechanical
							Contaminated foods can	engineer need to consider
							cause food poisoning	its action?
							Table 1000 Polocining	Friction is a force that acts
								between two objects,
								when they rub against
								each other. Friction is the
								resistance of motion,
								therefore it can stop an
								object from moving. In a
								-
								marble run, the tracks
								need to be just steep
								enough, so that the force
								of gravity is greater than
								the force of friction, so the
								ball keeps rolling. If the
								force of friction is greater,
								then the ball will stop
								rolling. Some friction will
								be helpful, however, to
								keep the marble on the
								track and to stop it from
								rolling too fast. Applying
								this scientific knowledge
								will allow for the creation
								of a better product.
	1. Design Brief and	1. Design Brief and	1a. Design Brief and	1a. Design Brief and	1a. Design Brief and	1a. Design Brief and	1a. Design Brief and	1a. Design Brief and
Suggested	Research	Research	Product Research	Product Research	Product Research	Product Research	Product Research	Product Research
Lesson	 Show design brief and 							
Sequence	discuss what they are	discuss what the	discuss what the	discuss what the	discuss the product/	discuss the product/	discuss the product/	discuss the product/
	going to design and	product is and how they	product is and how they	product is and who the	purpose/user. We will	purpose/user or	purpose/user.	purpose/user.
	make.	will become a designer.	will become a designer.	user is.	be textile designers for	'consumer'.	What do children know	Define mechanisms/
	• Explore a range of	Explore a range of	Explore a range of	 The children will 	this project.	Explore iconic food	about Mexican food? Do	mechanical engineering.
	divas (real or pictures)	fireworks and discuss	moving pictures in	become boat designers	Explore some fabric	packaging (mixture of	they know what street	Look briefly at famous
	and discuss their	their shape/features/	books.	for this project. Briefly	Christmas decorations	pictures and actual	food is?	mechanical engineers and
	shape/features/	construction etc.	Explore a range of	look at Isambard	to find out what	packaging if possible).	Look at definition of	what they invented/how
	construction etc.	Discuss what materials	Christmas cards to see	Kingdom Brunel. Discuss	features they have –	These products have all	street food – what street	this impacted upon the
		could be used to make a	what designs are used.	how designers can have	materials, construction,	become famous in part	foods do we eat in the	world.
	2. Design	firework decoration.	ac acsigns are asea.	a big impact upon the	design etc.	due to their packaging	UK? Show examples of	Look at example marble
	2. Design	mework decoration.	1b. Materials/Skills	world.	acsign etc.	design - explore what	popular Mexican street	runs both real-life and
	i e	ı	TD. IVIALEI IAIS/ SKIIIS	wollu.	İ	I design - explore what	I populai iviexicali sti eet	runs both real-life allu
		2. Design	Research			might be appealing/	foods – 'antojitos'.	Youtube videos. What

- Recap design brief and what was learned from research.
- Model drawing a simple picture to show what your diva will look like.
- Children to draw their designs.

3. Make

- Ensure children have their designs in front of them.
- Demonstrate how to make the diva, using salt dough and card.
- Children to make their diva with support as required, attempting to wrap and stick the card independently.

4. Evaluate

• Children to evaluate verbally.

- Recap design brief and what was learned from research.
- Model drawing a simple picture to show what your firework decoration will look like.
- Children to draw their design and decide what materials to use - these can be written in a list using a word bank if appropriate, or just discussed verbally.

3. Make

- Ensure children have their designs in front of them.
- Demonstrate any necessary making skills.
- Children to make their fireworks.

4. Evaluate

• Children to evaluate verbally.

- Recap design brief and initial product research.
- Practise making moving pictures using both a lever and a slider mechanism. Use a template so children only need to cut and ioin.
- Skills to demonstrate/ practise:
- Using a sharp pencil and eraser to make a hole in paper, in order to insert split pin or to insert scissors to make a
- How to use a split pin. How to cut a slit in paper (without cutting right to the edge of the paper).

2. Design

- Recap design brief and what was learned from research. Discuss making informed design decisions based on what they found out about materials.
- Children will need to decide what Christmas picture will go on the front of their card.
- They then need to decide which part or parts of the picture will move, and whether they will move using a lever or a slider. GD may choose to have more than one moving part and use both kinds of mechanism.
- Model drawing a design, including the mechanism, with labels for the lever/pivot/ slider/slit etc. Add arrows to show the direction of movement. Add a list of materials and tools required.

 Look at some pictures of boats - discuss materials, features etc. The main body of the boat is called the hull. A boat needs to be stable so it doesn't flip over; it needs to float be 'buoyant'; it needs to be waterproof so it doesn't let water in; it might have sails, or oars: it needs to have space for people to sit, etc.

1b. Materials Research (Conducted as a Science lesson as part of Materials topic)

- Children conduct an experiment to find out which construction materials are buoyant (eg paper, card, foil, cotton wool, fabric, string, paperclips, lollysticks, plastic bottles, bluetac sellotape etc).
- They record their results and then use them to decide which materials would be most appropriate.

1c: Materials/Skills Research

- Recap design brief and initial product research.
- Experiment with joining materials together using different ioining materials, such as glue, Sellotape, masking tape, string, blu tac, elastic bands etc this can be done via a series of mini challenges.

2. Design

Research Recap design brief

1b. Materials/Skills

- and initial product research.
- Practise sewing skills: - threading a needle - knotting the thread - sewing using running stitch
- Introduce and demonstrate whip a go at stitching two pieces of fabric together using whip

2. Design

- Recap design brief and what was learned from research. Discuss making informed design decisions based on what they found out about materials.
- Model drawing a used when making.
- Children to draw their designs and create their pattern pieces.

3. Make

- Ensure children have their designs in front of them.
- Demonstrate sewing skills again and remind about safety when using pins/needles.
- Demonstrate using pattern piece to cut out a front and back piece.
- Demonstrate sewing
- Children to select their tools and

- simple graphic/logo design, use of colour.
- stitch. Children to have stitch.

- design, including labels of materials/ components, type of stitch. Model creating a pattern piece to be

- round edge and leaving a gap for stuffing to be added.

- memorable about them. (e.g. Campbell's soup Coca Cola, Toblerone, Pringles, Smarties, Golden Syrup, Quality Street) - unique shape of packaging, logo, use of bold colours, often
- Explore a range of existing confectionary packaging. Look at both the graphic design (colour, pictures, text, logo etc) and its construction - what is it

Consider the shelf-

appeal of different

1b. Materials/Skills

and initial product

experiment using box

nets to make 3D shapes

out of paper. Give some

children to cut out and

challenge them to try

for different shapes.

easily.

and draw their own net

• Note and discuss the

• Demonstrate how to

scoring. Note that score

lines are often dashed.

• Demonstrate how to

cut neatly and safely

metal ruler and board.

using a craft knife,

score paper with

which lines need

scissors and discuss

use of tabs to join more

net templates for

assemble, and also

• Recap design brief and

products.

Research

research.

Explore and

- Introduce common made of and how has it spices used in Mexican been put together. If cuisine. Allow children to possible, take it apart look/ smell/taste them. • Children to research (e.g. flatten a box to see the shape of the net). taco filling ingredients,
 - Take feedback from class and perhaps decide upon a recipe that all will use for their taco filling (meat or veg and spice mix). Decide also on which toppings will be available - lettuce, cheese, sour cream,

using online recipes/

Wahaca website.

Children will be making

tacos, so look in more

Thomasina Miers. Use

menu from Wahaca

fillings are there?

and initial product

research.

ipads/laptops to look at

restaurants -what foods

are there? Look at Tacos

1b. Ingredients Research

• Recap design brief and

section – what possible

Introduce chef

detail at what these are.

salsa, guacamole etc. · Children could be shown an online video of how to make tacos.

1c. Food Hygiene

- Cover the basic principles of food hygiene and safe working practices in the kitchen, inc. crosscontamination.
- Children will complete a quiz (and gain their 'Food Safety Certificate') to demonstrate understanding.

2. Design

features do they have? (e.g. loops, tracks, funnels, bends, drops etc.) In what sense is a marble run a mechanism?

1b: Materials/Skills Research

- · Recap design brief and initial product research.
- What do children already know about friction/ gravity/angles? Give brief overview of these concepts. How could a mechanical engineer use this knowledge to design a successful marble run?
- Research materials and required making skills.
- Woodwork recap safe use of saws and how to join wood to wood.
- Look at how cardboard can be manipulated/ joined.
- Experiment with different track types and declinations to see how well the marble rolls - how does the gradient/material used affect the marble's movement? Which materials create more friction? What is the optimum angle of declination for the tracks?
- Experiment with making other features of marble runs that were identified in product research.

Lesson 2: Design

- Recap design brief and discuss what was learnt in the materials and skills research session.
- Remind children they need to use what they have learnt to inform their design decisions.
- Recap what tools/ materials they can choose

		Children to draw their	Recap design brief and	materials and make	Demonstrate how to	Recap design brief and	from whe
		designs.	what was learned from	their product.	fold along the score	what was learned from	product.
			research. Discuss		lines and stick the faces	research, in particular,	• Model d
		3. Make	making informed design	4. Evaluate	together using the tabs.	decisions about	showing n
		Ask children to look at	decisions based on what	Use evaluation		ingredients. Children will	different a
		their designs and discuss	they found out about	template.	2. Design	need to make choices	adding me
		what they are going to	materials.		 Recap design brief and 	from the agreed	(both leng
		make and how.	Model drawing a		what was learned from	ingredients/recipes.	incline for
		Recap the key skills	design, with labels for		research. Discuss	Model how to create a	labels. Ad
		such as how to make a	the parts and materials		making informed design	design for their dish,	path of ma
		hole in paper using a	used, including joining		decisions based on what	including all ingredients	required t
		sharp pencil.	materials. Add a list of		they found out.	 hard or soft taco shell, 	materials.
		Children to select their	materials and tools		• Firstly, children will	meat, spices,	 Children
		tools and materials and	required.		need to decide on what	condiments/ toppings -	designs.
		make their product,	 Children to draw their 		their confectionary	all equipment needed,	
		testing it as they go and	designs.		product will be, and	cooking/preparation	Lesson 3:
		making changes if			think of a name for it.	techniques. Also include	 Demons
		necessary.	3. Make		Recap shelf-appeal.	some details on working	a saw and
			 Ensure children have 		 Ideally, children 	safely and hygienically.	again.
		4. Evaluate	their designs in front of		should create their	Children to create their	 Children
		Use evaluation	them.		design using a	designs. They could think	marble ru
		template.	 Recap any key skills 		computer.	of a name for their taco	they go us
			they will require and		 Model drawing a 	dish (eg Holy	and makir
			remind about basic		design (using computer	Guacamole).	where ned
			safety e.g. scissor use.		if possible, e.g.	Children could write a	
			Children to select		Microsoft Paint). Draw a	method for the recipe, if	Lesson 4:
			their tools and materials		side view of the	time allows.	• Test mai
			and make their product.		packaging and a box net		they are c
			 Have a tank/tray of 		diagram. Add colours/	3/4. Make and Evaluate	dry. Discu
			water available so that		text/logo and the	Ensure children have	features o
			children can test their		product's name. Add	their designs in front of	ones.
			boat to see if it floats. It		measurements and	them.	• Evaluate
			should be able to hold a		labels. Indicating scoring	Talk through how tacos	evaluation
			little toy/model person.		with dashed lines if	will be made.	
			Allow time for		possible.	Recap food hygiene	
			modifications if		Children to create	and safety.	
			necessary.		their designs.	Demonstrate relevant	
						cooking/preparation	
			4. Evaluate		3. Make	techniques.	
			Use evaluation		• Ensure children have	Children to make their	
			template.		their designs in front of	tacos. Can be done in	
					them.	groups.	
					Box nets can be drawn	Children will evaluate	
					or printed out from	their tacos straight	
					their design.	away, when they taste	
					 Recap cutting and 	them, using evaluation	
					scoring skills and remind	template.	
					about safety when using		
					knives.		
					 Children to select 		
					their tools and materials		
					and make their product,		
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rom when designing their product.

- Model drawing design, showing marble run from different angles, and adding measurements (both lengths and angles of incline for tracks) and labels. Add arrows to show path of marble. Add list of required tools and materials.
- Children to create their designs.

Lesson 3: Make

- Demonstrate safe use of a saw and bench hook again.
- Children to make their marble runs, testing as they go using a marble, and making improvements where necessary.

Lesson 4: Evaluate

- Test marble runs in once they are completed and dry. Discuss common features of most successful
- Evaluate work using evaluation template.

making modifications as

necessary.

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			4. Evaluate	
			 Use evaluation 	
			template.	
			template.	