

	Autumn	Vocabulary	Spring	Vocabulary	Summer	Vocabulary
EYFS	Nursery – Range of	Nursery	Nursery – Range of Materials	Nursery	Nursery – Range of Materials	Nursery
	<u>Materials</u>	Vocabulary:	Use various construction	Vocabulary:	Join different materials,	Vocabulary:
	Explore different materials	build, join,	materials, e.g. joining pieces,	stapler, hole	beginning to explain choice	plasticine,
	freely to develop their	plastic, paper,	stacking vertically and	punch,	linked to shape and texture /	squash,
	ideas about how to use	cardboard	horizontally, balancing, making	treasury tag,	properties.	squeeze, pull,
	them and what to make.		enclosures and creating	tools, goggles,		push
			spaces.	safely	Nursery – Tools and fixings	
	Nursery – Tools and				With supervision, begin to use	
	fixings		Nursery – Tools and fixings		an age-appropriate hammer	
	Begin to use cutlery		Use scissors accurately		and screws (goggles and	
	accurately				gloves).	
		Reception	Use masking tape, Sellotape	Reception		<u>Reception</u>
	With supervision, use	Vocabulary:	(and cutter), elastic bands,	Vocabulary:	Nursery - Sculpting	Vocabulary:
	staplers and hole punches	material, wood,	Pritt stick and PVA glue	trowel, drill,	Use loose parts and a	clay, papier
	safely	foil, fabric, fixing	accurately	vice, saw, split	range of materials to	mâché, twist,
				pins, safety	create own models.	stretch, flatten
	Nursery – Sculpting		Nursery - Sculpting	equipment		
	Use playdough to create		Use playdough and plasticine		Reception – Range of	
	shapes		to sculpt specific ideas or to		<u>Materials</u>	
			copy specific sculptures		Join different materials	
	Begin to use playdough				explaining why they have	
	cutters with control		Begin to use key vocabulary to		chosen certain parts.	
			describe what they have			
	Reception – Range of		created, e.g. squashed,		Reception – Tools and fixings	
	<u>Materials</u>		squeezed, pulled		Know how to use an age-	
					appropriate hammer, screws,	



	Develop their own ideas		Reception – Range of		nails, hand drills, hand vice	
	through experimentation		<u>Materials</u>		and a saw safely (goggles and	
	with a diverse range of		Purposefully choose		gloves).	
	materials		construction materials for a			
			specific job.		Reception – Sculpting	
	Increasingly choose more				Sculpt with playdough,	
	appropriate materials for		Reception – Tools and fixings		plasticine, clay and papier-	
	the job, e.g. cotton reels /		Use a range of fixings		mâché to create a specific idea	
	lids for wheels, wool /		explaining choices – staples /			
	thread for hair.		stapler, hole punch, treasury			
			tags, split pins, different glues,			
			Sellotape, masking tape			
	Reception – Tools and					
	fixings					
	Accurately use a range of					
	small tools - scissors,		Reception – Sculpting			
	cutlery, stapler, hole		Create their own sculptures			
	punch, trowel		and talk about the process			
			they have used to achieve			
	Reception – Sculpting		their desired effect			
	Use correct vocabulary to					
	describe process e.g.					
	twisted, rolled, stretched					
1	DT Block A – How can you	Block A Core	DT Block C – How does food	Block C Core		Block E Core
	make a picture move?	Knowledge:	affect your senses?	Knowledge:		Knowledge:



	Slider		Senses	DT Block E – How can two	Binca
<u>Mechanisms</u>	Slot	Food and Nutrition	Vitamins	squares of fabric keep you	Sewing
	Bridge		Sensory	warm?	Felt
<u>Lesson sequence</u>		<u>Lesson sequence</u>			
1. Define the terms: slider,	<u>Technical</u>	1. Identify the five senses and	<u>Technical</u>	<u>Textiles</u>	<u>Technical</u>
push, pull, linear and	Vocabulary:	five key flavours: sweet, salty,	Vocabulary:		Vocabulary:
movement. Explore sliding	Push	sour, bitter and umami.	Ribboning	<u>Lesson sequence</u>	Running stitch
mechanisms in greetings	Pull	Explore the ways that eating	Caramelise	1. Explain and use relevant	Attach
cards, interactive books	Rigid	food stimulates the senses.	Marinade	vocabulary. Introduce and	Pouch
and everyday objects.		Explain the benefits of eating		demonstrate a simple running	
Explain the movement		raw vegetables in a variety of		stitch using yarn and darning	
and forces involved in		colours. Demonstrate		needles. Make holes for	
sliders: push, pull, linear.	Block B Core	techniques for preparing	Block D Core	sewing in a paper plate or	Block F Core
Define the terms: weave	Knowledge:	vegetables, such as ribboning.	Knowledge:	piece of cardboard, using a	Knowledge:
and template. Use scissors	Tower	Use appropriate vocabulary to	Construction	hammer and nail. Use stitches	Function
and templates to make a	Topple	describe flavours and textures	Properties	to outline a word or initial and	Variety
paper weave (pattern	Lean	and state preferences	Architect	to add decoration	Texture
plate). Evaluate results		2. Recap on key principles		2. Introduce and name a range	
2. Demonstrate how to	<u>Technical</u>	from previous lesson. Discuss	<u>Technical</u>	of open weave fabrics.	<u>Technical</u>
make three types of slider	Vocabulary:	what makes food appealing to	Vocabulary:	Compare the properties of	Vocabulary:
mechanism	Foundation	all our senses. Demonstrate	Modify	different sewing threads.	Vitamins
3. Construct a novelty toy	Balance	how to prepare crudités using	Cement	Make a record of fabrics and	Nutritious
or greetings card which	Perpendicular	the claw and bridge	Solidify	threads used by labelling	Pane
has a movable image.		techniques Revisit grating and		sewing samples	
Make design decisions		ribboning. Encourage the use		3. Attach two squares of felt	
about who the product is		of appropriate vocabulary to		using running stitch to create a	
intended for and what its		describe texture and taste and		pouch. Create a simple	
purpose is. Apply simple		in the evaluation of outcomes		monster face using pieces of	
construction and design		3. Describe the aroma of a		felt. Explain the importance of	
skills. Evaluate outcomes		range of herbs and spices and		using small stitches and using	



Prior learning:

EYFS manipulate fabric and yarns by poking, pulling, threading and weaving, draw around a template, use scissors to cut along straight and curved lines and around shapes

DT Block B – How can you stop a tower from toppling over?

Structures

Lesson sequence

1. Explore how the size of a base affects the stability of a tower and how tall it can be built. Explain what balance means and how balance affects the stability of a tower. Explain what a foundation is and how this creates stability. Experiment with combinations of different shaped and sized blocks,

explore how marinading affects food. Explain caramelisation and explore how this process affects taste. Evaluate outcomes, state preferences and make suggestions for adaptations and improvements

Prior learning:

EYFS distinguish between fruit and vegetables, name a range of vegetables, identify the five senses

<u>DT Block D – Can you build</u> with bread?

Understanding Materials

Lesson sequence

1. Identify different materials. Describe the properties of materials. Sort materials according to their properties. Describe how the properties of cement change when water is added, and it is left to dry 2. Identify materials that are suitable and unsuitable for use

two lines of running stitch. Explain why rice is used to fill the pouch and what happens to the rice when the pouch is placed in a microwave

Prior learning:

EYFS identify materials such as cardboard, string and polystyrene, manipulate fabrics and yarns by poking, pulling, threading and weaving

DT Block F – Why are vegetables the best?

Food and Nutrition

Lesson sequence

1. Explore the health benefits of eating a wide variety of vegetables. Combine ingredients to create three separate vegetable dips. Demonstrate methods of preparing vegetables such as blending and dicing 2. Prepare and combine a variety of salad vegetables.

Describe flavours and textures



Prior learning:

in construction. Explain how the properties of a material can change when heat is added. Know how to combine ingredients to create a bonding product

3. Make decisions about the suitability of materials for building. Make decisions about

building. Make decisions about substances that can be used to bond materials securely. Explain what makes properties of materials change (adding heat or water.) Make changes to a design to allow for the limitations of materials used

Prior learning:

Sort objects according to size, shape and colour, use a ruler accurately to draw and measure lines, identify that objects are made from different materials

and identify flavours and textures that complement each other

3. Practise the pane cooking technique of coating food in flour, beaten egg and breadcrumbs. Explore how cooking vegetables and coating them in breadcrumbs can change their texture and flavour. Evaluate outcomes using appropriate technical vocabulary

Prior learning:

Explain that vegetables contain vitamins and minerals that the body needs, peel, chop and grate a selection of vegetables, identify what makes food appealing to all our senses



	EYFS use scissors, identify					
	different types of building					
	blocks					
2	DT Block A – How can you	Block A Core	DT Block C – Are bigger	Block C Core	DT Block E – How healthy is	Block E Core
2	repurpose an item of	Knowledge:	wheels always better?	Knowledge:	your food?	Knowledge:
	clothing?	Patchwork	wheels always better:	Wheel	your roou:	Ingredients
	<u>ciotiiiig:</u>	Overstitch	Mechanisms	Axle	Food and Nutrition	Fibre
	Textiles	Repurpose	<u>INICCITATIISITIS</u>	Axle holder	1000 and Nutrition	Protein
	<u>IEXTILES</u>	Repuipose	Lesson sequence	Chassis	Lesson sequence	Fioteiii
	Lesson sequence	Technical	1. Explore the difference	Cildssis	1. Identify examples of	Technical
	1. Identify the properties	Vocabulary:	between fixed axles and	Technical	processed and ultra processed	Vocabulary:
	of a range of fabrics. Sort	Template	rotating axles and identify	Vocabulary:	food	Processed
	fabrics according to	Applique	their applications	Rotate	2. Explore the healthy	Vitamins
	specific criteria. Explore	Quilt	2. Explore, experiment and	Position	alternatives to processed food	Starch
	how fabrics can be	Quiit	explain the effects of changing	Centre	that can be made using fresh	Startii
	repurposed to create		different variables relating to	Centre	ingredients	
	patchworks. Identify	Block B Core	wheels and axles	Block D Core	3. Identify the importance of	Block F Core
	geometric shapes that are		3. Use knowledge of wheels	Knowledge:	fibre and carbohydrates in a	
	suitable to make	Knowledge:	and axles to design and make a	Manipulate	balanced diet. Explain the	Knowledge:
	patchworks. Use a	Free-range Processed	simple vehicle. Evaluate	Flexible	importance of nutrients such	Paper Crease
	template to create		vehicles and explain reasoning		as protein and calcium which	
	multiple shapes of the	Coagulate	for design choices	Barrier	can be found in cheese	Corrugated
	same size. Arrange	Tochnical	Tor design choices	Technical	can be found in cheese	Technical
	samples of paper or fabric	<u>Technical</u>	Prior learning:		Prior learning:	
	to create an attractive	Vocabulary:	YR1 use modelling materials	Vocabulary:	YR1 use a knife safely and	Vocabulary: Pillar
		Vitamins		Waterproof	The state of the s	
	patchwork design	Protein	and equipment safely, use	Resistant	accurately with control,	Story
		Wholemeal		Absorbent	explain that vegetables	Load



2. Appliqué a cutout
shape onto another piece
of fabric. Thread a needle
using a needle threader.
Use an overstitch to join
pieces of fabric
3. Explore the history of
quilt making. Attach a card
template to pieces of
fabric using running stitch.
Use an overstitch to join
fabric shapes together
securely and neatly.
Create a patchwork by
following a specific
process

Prior learning:

YR1 identify parts of a needle and explain the meaning of words such as yarn and thread, thread a needle independently, use a running stitch to attach pieces of fabric

DT Block B – What does healthy mean?

Food and Nutrition

rulers and scissors accurately, name types of transport

DT Block D – How can you waterproof a hat?

Materials

Lesson sequence

1. Identify features of clothing designed to be suitable for wet weather conditions. Sort clothing according to their suitability for specific weather conditions. Carry out a fair test to determine whether materials are waterproof

2. Explore what makes feathers waterproof and why this is important. Identify how boots have been adapted to make them fit for a specific

purpose. Test paper for its

3. Explore how paper can be

folded and creased to create

different 3D forms. Identify

how the properties of paper

change when folded in a

variety of ways. Test

water-resistant qualities

contain vitamins and minerals that the body needs, use appropriate vocabulary to describe flavours and textures and explain preferences, use the techniques of grating and ribboning safely and with control

DT Block F – How strong is a piece of paper?

Structures

Lesson sequence

- 1. Explore methods of folding to increase the strength of paper. Conduct a fair test. Test the strength of different-shaped paper pillars. Test the strength of folded and corrugated paper 2. Use a combination of folded and flat cards to create a multistorey tower. Explore how the positioning of folded cards affects the stability of a tower
- 3. Design and make a structure according to set criteria.



	substances for their water-	Modify a design in light of test
Lesson sequence	resistant properties and select	results. Rebuild a structure to
1. Introduce pupils to a	the most effective	incorporate design changes
wide range of salad		
vegetables, some of which	Prior learning:	Prior learning:
they may be unfamiliar	YR1 identify properties of	YR1 build structures that are
with. Explain the	materials, sort materials	free standing using a range of
difference between fresh	according to their properties	different materials, identify
and processed food and		different types of building
why processed food is less		blocks, explain that a wide
healthy than fresh Identify		base or foundation provides
some of the key nutrients		greater stability to a structure
in salad vegetables.		
Explain that having a		
healthy diet requires us to		
eat a range of foods to		
ensure our bodies receive		
all the different nutrients		
it needs. Make a layered		
salad with a simple		
dressing		
2. Explain why protein is		
needed by the body and		
that meat, dairy products		
and eggs are a major		
source of this nutrient.		
Explain the term freerange		
and discuss the ethical		
issues around animal		
welfare. Make a quiche		



	using a tortilla wrap as a base 3. Explain the difference between white and wholemeal flour. Explain what fibre is and that the body needs fibre to maintain a healthy digestive system. Make a healthy alternative to crisps, using pitta bread seasoned with herbs and spices Prior learning: YR1 name a range of vegetables, explain why eating vegetables is good for us, explain what vitamins are, use the techniques of grating and ribboning					
3	DT Block A - How can you make a box out of cloth?	Block A Core Knowledge: Starch	DT Block C – How can you do a lot of work with little effort	Block C Core Knowledge: Lever	DT Block E – How are things powered?	Block E Core Knowledge:
	<u>Textiles</u>	PVA glue	<u>Mechanisms</u>	Linkage	<u>Systems</u>	Energy Energy source
	Lesson sequence	Gelatin	Lesson sequence	Mechanism	Lesson sequence	Types of energy



1. Identify the variables	Technical	1. Learn how levers provide a	Technical	1. Explain what energy is	Technical
•	Vocabulary:	mechanical advantage by	Vocabulary:	Identify energy sources for a	Vocabulary:
that will not in a fair test.	Stiffen	creating a force that can move	Force	range of objects. Identify and	Turbine
Explore a range of	Interfacing	a load with minimal effort	Load		Source
solutions that can be	•			explain energy sources: food,	
	Cloth	Identify the components of a	Effort	wind, water, solar, oil, gas,	Intermittent
applied to a fabric to make		lever: fulcrum, effort and load		coal, nuclear, petrol. Match	Renewable
it rigid	Block B Core	Identify the load, fulcrum and	Block D Core	objects to energy sources.	Block F Core
2. Suggest and explore	Knowledge:	effort in three classes of lever.	Knowledge:	Explain how energy can be	Knowledge:
ways in which a box can	Seasonal	Construct a class one and class	Nutrition	controlled	Gap
be covered using fabric.	Balance	three lever (see-saw and	Fibre	2. Identify types of energy and	Deck
Use a template to cut	Preserve	catapult)	Minerals	match to everyday examples.	Pier
fabric to the appropriate		2. Linkages are a series of		Explain that energy is	
size and shape. Fold and	<u>Technical</u>	levers and pivots. Explore the	<u>Technical</u>	converted from one form to	<u>Technical</u>
manipulate fabric to cover	Vocabulary:	difference between the input	Vocabulary:	another and cannot be created	Vocabulary:
both the inside and	stew	and output force in a range of	Seasoning	or destroyed. Discuss the	Suspension
outside of a box	pressure	linkage systems. Describe the	Claw	factors that designers take into	Arch
3. Select a stiffening agent	seasoning	different types of motion	Bridge	account when selecting energy	Bascule
and use templates to	-	created by linkages. Design a	_	sources. Identify advantages	
create fabric props that		simple toy mechanism that		and disadvantages of different	
will hold their shape. Use		uses a linkage system. Explain		energy sources. Explain	
a box as a mould in order		how your toy will work and the		sustainability and give	
to create a box shape		movement created by the		examples of sustainable	
from fabric. Use a		linkage		energy sources. Explain fossil	
template to form a box		3. Select an appropriate design		fuels and why we are moving	
that requires no cutting		for a specific movement		away from this source of	
		created by a linkage system.		energy	
Prior learning:		Construct a simple linkage		3. Explain the achievements of	
YR2 use a template to cut		system. Evaluate the outcome		key inventors, exploring their	
shapes accurately from		and suggest ways in which the		designs and energy sources	
fabric, fold and attach		30-11 17		used. Identify functions and	



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fabric to a paper template
accurately, mould and
manipulate paper to
create 3D forms, use a
range of methods to join
materials

DT Block B – What do we mean by a balanced diet?

Food and Nutrition

Lesson sequence

1. Explain that to have a balanced diet we should eat healthy foods regularly and less healthy foods in moderation. Explore how seasonality affects our diet. Show examples of different methods of preserving fruit.

Demonstrate how to stew fruit

2. Explore the difference in ingredients between

processed and homemade

popcorn. Teach pupils

popcorn and the plant it

about the origin of

movement of the mechanism could be changed or improved

Prior learning:

YR2 identify simple mechanisms and their uses

DT Block D – How does food affect your body and mind?

Food and Nutrition

Lesson sequence

- 1. Explore how food benefits the body and mind. Explore how to adapt the flavour of food
- 2. Recognise the importance of fibre and how it aids digestion. Identify foods that are high in fibre such as wholegrains. Identify flavours and suggest ways in which flavours can be adjusted 3. Identify a range of spices and use them to season food.
- 3. Identify a range of spices and use them to season food. Describe how the texture and taste of food can be changed or enhanced by using

power sources of appliances and explain the choices a designer has made Identify benefits and limitations of different energy sources.

Conduct practical experiments to demonstrate the conversion of one form of energy to another

Prior learning:

YR2 identify mechanisms that are powered by hand, identify some appliances that use electricity, use relevant vocabulary to describe weather, explain what humans and animals need to survive

DT Block F – What makes a bridge strong?

Structures

Lesson sequence

1. label an image with the key features of a bridge Identify types of bridges Identify differences and similarities between images of a range of



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comes from. Explain and	
demonstrate how to make	
popcorn. Investigate	
flavour and seasoning	
combinations	
3. Explore the nutritional	
value of potatoes and the	
importance of starch.	
Explain that deep-fried	
food can be included in	
our diets if eaten in	
moderation. Explain that	
the fat pre made chips are	
often cooked in can be	
less healthy than the fat	
used in homemade	
versions. Experiment with	
a range of seasonings to	
enhance flavour. Explain	
what semolina is, where it	
is often used and why it	
makes a suitable coating	
for chips	
Prior learning:	
Use knife skills with	
increasing confidence and	
accuracy, identify	
examples of processed	
food idontify como koy	

seasoning, by roasting and by marinading

Prior learning:

Use the bridge method to cut food safely, identify and describe key flavours, peel, chop and grate a selection of vegetables, describe how food can affect the senses

bridges. Explain the purpose of a bridge and the importance of strength and stability. Explore how using weight as a counterbalance can provide stability to a bridge structure 2. Explore ways of stabilising a beam bridge made from paper. Create features such as arches and piers from paper. Modify a design in light of test results. Make decisions about which features are most effective at strengthening a bridge 3. Design and construct a bridge to hold a specified weight and span a specific gap. Make decisions about which features to include and explain reasoning. Construct features from cardboard and attach bridge parts securely to ensure stability. Adjust a design to improve the stability and strength of a bridge structure

food, identify some key

Prior learning:

Make a structure in accordance with a set of criteria, recognise that a



	nutrients found in fresh				cylindrical pillar is stronger	
	food, know the				than a rectangular one	
	importance of fibre and					
	carbohydrates in a balanced diet					
	balanced diet					
4	DT Block A – What's really	Block A Core	DT Block C - How do you keep	Block C Core	DT Block E – How useful are	Block E Core
	in your food?	Knowledge:	a teatowel from slipping off a	Knowledge:	switches?	Knowledge:
		Ingredients	hook?	Shank		Switch
	Food and Nutrition	Processed		Burr	Electrical systems	Circuit
		Bread	<u>Textiles</u>	Hook and		Component
	<u>Lesson sequence</u>			loop	<u>Lesson sequence</u>	Current
	1. Compare the	<u>Technical</u>	Lesson sequence		1. Teach pupils that a switch is	
	ingredients used in mass-	Vocabulary:	1. Explore the component	<u>Technical</u>	a control mechanism used to	<u>Technical</u>
	produced pizzas with	Gluten	parts and purposes of a range	Vocabulary:	interrupt the flow of electricity	Vocabulary:
	those used in homemade	Knead	of fasteners. Identify	Buckle	in a circuit. Explain that	Interruption
	pizzas. Identify the	Ferment	advantages and disadvantages	Fastener	switches are useful because	Unbroken
	nutrients present in flour,		of each fastener. Explain the	Raw edges	they allow us to turn	Conductor
	cheese and tomatoes:		suitability of fasteners for		appliances on and off. Give	Multi-purpose
	carbohydrates, vitamins,	Block B Core	specific purposes	Block D Core	examples of switches that	Block F Core
	protein and calcium. Make	Knowledge:	2. Use sewing techniques to	Knowledge:	have more than one function.	Knowledge:
	a simple yeast free dough	Hinge	attach a range of fasteners	Structural	Teach pupils that some	Cheap
	and use the techniques of	Knuckle	Evaluate outcomes and record	engineer	switches can vary the speed,	Fusion
	kneading, rolling and	Leaf	the methods used	Geodesic	volume or degree of light	Texture
	stretching to form the	Pin	3. Using running stitch, create	Gravity	provided by appliances. Build	
	dough. Explain what	Barrel	a pocket by stitching two		simple circuits to include a	<u>Technical</u>
	gluten is and how it		pieces of felt together. Use	<u>Technical</u>	switch	Vocabulary:
	affects the texture of	<u>Technical</u>	running stitch to gather fabric	<u>Vocabulary:</u>	2. Explore appliances that	Shallow-fry
		<u>Vocabulary:</u>	to a specific length. Apply	Truss	have different kinds of	Shortening



dough. Explore traditional	Butt hinge	previously learned skills and	Compression	switches and how they work.	Fragrant
pizza topping ingredients	Concealed hinge	knowledge to a context. Select	Tension	Draw a simple circuit diagram	
2. Explore the differences	Net	and make a suitable fastener		for an electrical appliance.	
in terms of flavour,		Explain a process and evaluate		Explain the different purposes	
textures and nutritional		outcomes		of switches: efficiency, safety	
value between mass				and functionality. Explore	
produced bread and		Prior learning:		appliances that have more	
homemade bread. Explain		Use running stitch to attach		than one switch and	
the additional ingredients		fabrics, describe the		investigate their purposes,	
that are present in mass		properties of materials, use		such as to vary volume, light	
produced bread products.		scissors to cut accurately		and heat	
Explain what yeast is and				3. Explore types of switches in	
how the fermentation		DT Block D – Which shapes		a range of toys and games.	
process works to make		will give a structure stability?		Explore how some games	
bread dough rise. Define				incorporate an interruption to	
the term proving and		<u>Structures</u>		an electrical current, which	
explain this process and				effectively acts as a switch.	
how it affects the final		<u>Lesson sequence</u>		Model how to make simple	
outcome		1. Identify and explain the		games that incorporate an	
3. Explore the difference		forces that affect buildings		interruption to an electrical	
in ingredients between		(compression, gravity, tension)		current. Demonstrate how	
tinned and freshly made		Describe the role of engineers		insulating materials can be	
soup. Explain that eating		and architects. Conduct		used to break the flow of an	
lots of pre-made foods		investigations to discover the		electrical current	
can make it difficult to		load bearing properties of			
control our intake of sugar		cylinders made from a sheet of		Prior learning:	
and salt. Make a simple		paper compared with		Name sources of electrical	
soup. Compare the taste		cylindrical forms constructed		energy: batteries, mains	
and texture of tinned and		from a series of smaller		power, rechargeable batteries,	
freshly made soup.		cylinders		identify common appliances	



Evaluate results and
suggest ways in which a
recipe could be adapted

Prior learning:

Identify some of the nutrients in a range of foods, dice, slice, chop and grate vegetables, explain the benefits of fresh food, compared to processed food

DT Block B – How many ways are there to open a door?

Mechanisms

Lesson sequence

1. Identify the purpose of a hinge and know that it is a rotating joint that allows movement between two linked objects. Explain the different features and applications of a variety of hinges. Use a range of materials and simple tools to construct a variety of

2. Investigate the strength and stability of a range of geometric shape.s Make a record of tests conducted and summarise outcomes. Identify which shapes are strongest and most stable and their application in construction 3. Apply knowledge and skills to a practical context. Collaborate with others to create a structure from triangles. Create, adapt and modify a design. Evaluate results and suggest improvements

Prior learning:

Name the properties of 2D and 3D shapes, explain the difference between 2D and 3D shapes, increase the rigidity and strength of paper by folding and creasing

that use electricity, name the basic components of an electrical circuit: bulb, battery, motor, buzzer

DT Block F – Is cheap food always worse for you?

Food and Nutrition

Lesson sequence

- 1. Compare the advantages of processed food with its disadvantages Explore ways of using low-cost fresh ingredients to make simple and appetising meals Evaluate outcomes
- 2. Discover the origins of the pasty and how this traditional snack has been adapted in many other countries.

 Compare the cost and nutritional content of preprepared and homemade food. Make shortcrust pastry.

 Define the term fusion.

 Suggest ways in which a recipe could be adapted to reflect the cuisine of other countries



hinges and evaluate their effectiveness 2. Use measuring, cutting and joining skills to construct a gift box from cardboard. Design and joining skills to construct a gift box from cardboard. Design and make a product that incorporates a working hinge. Make decisions about the most appropriate hinge to be incorporated and give reasons for choice. Evaluate outcomes, making judgements about aesthetics, accuracy and stability and effectiveness of the hinge stability and effectiveness of the hinge for the hinge stability and effectiveness of the hinge for the hinge for the hinge stability and effectiveness of the hinge for the hinge stability and effectiveness of the hinge for the hinge for the hord to make a hinge to how to make a hinge to product. Modify the design as necessary Evaluate outcomes Prior learning: Use cutting and joining techniques with a range of	TOCKBRIDGE VILLAGE PRIMARY DT LONG TERM P	lan 2025/26		
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aesthetics, accuracy and stability and effectiveness of the hinge 3. Apply knowledge of how to make a hinge to fulfil a specific brief. Use modelling skills to construct a stable product. Modify the design as necessary Evaluate outcomes Prior learning: Use cutting and joining	Evaluate outcomes,			
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of the hinge 3. Apply knowledge of how to make a hinge to fulfil a specific brief. Use modelling skills to construct a stable product. Modify the design as necessary Evaluate outcomes Prior learning: Use cutting and joining	aesthetics, accuracy and		body to repair, use the claw	
3. Apply knowledge of how to make a hinge to fulfil a specific brief. Use modelling skills to construct a stable product. Modify the design as necessary Evaluate outcomes Prior learning: Use cutting and joining	stability and effectiveness		and bridge methods to cut	
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fulfil a specific brief. Use modelling skills to construct a stable product. Modify the design as necessary Evaluate outcomes Prior learning: Use cutting and joining	3. Apply knowledge of		processed food is unhealthy	
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product. Modify the design as necessary Evaluate outcomes Prior learning: Use cutting and joining				
design as necessary Evaluate outcomes Prior learning: Use cutting and joining				
Evaluate outcomes Prior learning: Use cutting and joining				
Prior learning: Use cutting and joining				
Use cutting and joining	Evaluate outcomes			
Use cutting and joining				
techniques with a range of				
	techniques with a range of			



	materials including card,					
	plastic and wood, show an					
	understanding of how to					
	strengthen and stiffen					
	structures, identify and					
	make simple mechanisms					
5	DT Block A – Why are our	Block A Core	DT Block C – Which fabric is	Block C Core	DT Block E – How are frames	Block E Core
	diets so different?	Knowledge:	ideal for creating a functional	Knowledge:	strengthened, reinforced and	Knowledge:
	and to an aniarant	Culture	and hardwearing lunch bag?	Durability	made rigid?	Frame
	Food and Nutrition	Presentation		Repurpose		I-beam
		Variety	Textiles	Functional	Structures	Struts
	Lesson sequence	Smorrebrod				
	1. Explore the varieties of	Flatbread	Lesson sequence	Technical	Lesson sequence	Technical
	bread from around the	Mezze	1. Explore the different	Vocabulary:	1. Explore ways in which	Vocabulary:
	world. Explain how		properties of a range of fabrics	Beeswax	framed structures are	Brace
	flatbreads differ, in terms	Technical	and how these determine	Swatch	reinforced. Understand and	Mitre
	of the ingredients and	Vocabulary:	their uses. Plan and carry out a	Insulate	use technical vocabulary	Gussets
	cooking methods used,	Fibre	fair test. Sort fabrics according		relating to the reinforcement	
	from traditional breads.	Kneaded	to their properties		of structures. Experiment with	
	Use a griddle pan Make	Unleavened	2. Explore the properties of		methods of joining straws	
	garlic butter		materials used in the storage		securely	
	2. Explain the differences	Block B Core	of food. Explain why materials	Block D Core	2. Use carpentry equipment	Block F Core
	and similarities between	Knowledge:	need to be durable and	Knowledge:	appropriately and safely. Saw	Knowledge:
	the Danish and UK diet	Properties	waterproof. Explore the effect	Culture	lengths of wood to create a	Gear
	Explore and explain the	Fastener	of coating fabric with wax.	Migration	frame. Recognise that triangles	Pulley
	nutritional value, taste	Algorithm	Record findings and	Spices	are the most suitable shape to	Mechanism
	and texture of rye bread.		conclusions		create gussets and braces to	
	Investigate ways of				reinforce joins in a frame.	



combining a range of	<u>Technical</u>	3. Explore which clothing	<u>Technical</u>	Make a written record of the	<u>Technical</u>
ingredients to create an	Vocabulary:	items can be repurposed as a	Vocabulary:	work completed using	Vocabulary:
open sandwich that is	Fluorescent	lunch bag. Use cutting,	Medicinal	appropriate vocabulary	Gear train
visually appealing	Reflective	stitching and folding to	Fragrant	3. Apply knowledge of how to	Driver gear
3. Explore some culinary	Attachment	construct a rectangular-based	Stir-fry	make a structure to fulfil a	Idler
traditions of Middle	point	durable lunch bag. Make		specific brief. Use carpentry	
Eastern and	Debug	choices about fastening and		skills to construct a stable	
Mediterranean countries.	Programming	decorations		frame, incorporating structural	
Define the term mezze				joins for additional support	
Make simple yoghurt		Prior learning:		and strength. Identify the	
based dressings using a		Use a range of stitches to join		structural joins used and give	
range of flavours. Explain		fabric, make simple fastenings,		reasons for choices. Evaluate	
the nutritional value of		explain the concept of wax		and modify the design and	
ingredients such as		resist, identify properties of		structure as needed	
yoghurt and chickpeas		everyday materials			
				Prior learning:	
				Identify shapes suitable for	
Prior learning:		DT Block D - What can you		adding strength to a structure,	
Use knife skills safely to		leant from different cultures'		identify some methods used	
prepare a range of		diets?		to provide structural stability	
vegetables, knead, roll and					
shape dough, use the claw		Food and Nutrition			
and bridge techniques					
confidently		Lesson sequence		DT Block F – How can you lift	
		1. Explain how changes in		a car onto a roof?	
DT Block B – How can we		lifestyles over time require a			
keep ourselves safe on		change in diet. Explore the		<u>Mechanisms</u>	
the road?		nutritional value of traditional			
		Asian recipes, ingredients and		<u>Lesson sequence</u>	
Systems		cooking methods. Make a			



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- 1. Understand the importance of road safety. Select materials based on their properties. Combine materials to fulfil a design brief
- 2. Different fastenings are appropriate for different purposes. Measure and cut a paper template. Apply basic stitching skills. Explain how a product meets a design brief 3. Technology can be used to control, program and monitor products. Develop an algorithm. Write and test a simple program using coding knowledge. Evaluate a product against a design brief

Prior learning:

Describe the properties of materials, identify and attach fastenings, understand and use

traditional Vietnamese summer roll. Use traditional Asian ingredients such as mint, coriander, fish sauce and rice wine vinegar to add flavours 2. Identify and use some core ingredients and flavours found in Asian cuisine. Explore how specific vegetables enhance our health and have medicinal qualities, such as garlic and ginger. Use the stir-fry cooking technique 3. Identify and use some core ingredients and flavours

ingredients and flavours
typical of Indian cuisine.
Explain how UK diets have
been influenced by Indian
cuisine. Explore the medicinal
qualities of spices such as
turmeric. Experiment with
spice mixes to add flavour to
vegetables. Explain the term
par boil. Select vegetables for
their flavour and nutritional
value. Evaluate outcomes and
explain how a recipe can be
adapted

Prior learning:

1. Explain what a gear is and how it works. Identify different types of gears and their applications. Explore how the direction and speed of movement is changed by using a system of gears and / or pulleys Introduce and define technical vocabulary related to gears and pulleys. Construct a simple pulley system to lift a load. Use diagrams, photos and annotations to record information about gears and pulleys 2.Explore different designs of

cranes and their everyday applications. Cranes use pulley systems to provide a mechanical advantage Identify specific constraints and limitations related to a design brief. Make a structure containing a pulley system for a specific purpose. Evaluate outcomes, identifying where modifications need to be made and assess whether the requirements and



	simple algorithms, design		Use a range of techniques to		specifications of the brief have	
	and debug simple		prepare and cook vegetables		been met	
	programs		with accuracy and confidence,		3. Explore a range of designs	
	1 -0 -		recognise that good nutrition		and structures that could fulfil	
			keeps the body healthy,		the requirements of the	
			provides energy and helps the		original design brief. Explore a	
			body to repair, identify some		range of gear and pulley	
			advantages and disadvantages		mechanisms used in structures	
			of eating pre-prepared food,		such as Ferris wheels,	
			use appropriate vocabulary to		windmills, ski lifts and wells	
			explain processes and describe		and use these as a basis for	
			aromas, flavours and textures		designs. Apply modelling,	
					measuring, joining and cutting	
					skills. Evaluate outcomes and	
					identify modifications	
					,	
					Prior learning:	
					Give examples of simple	
					mechanisms such as levers	
					and linkages, cut and join a	
					range of materials, identify	
					ways in which to make a	
					structure more stable and rigid	
6	DT Block A – Can street	Block A Core	DT Block C – Does food affect	Block C Core	DT Block E – Can switches	Block E Core
	foods save us?	Knowledge:	the way you feel?	Knowledge:	perform more than one	Knowledge:
		Street food		Carbohydrates	function?	Switch
	Food and Nutrition	Culture	Food and Nutrition	Staple		Parallel circuit
		Snack		Nutrient	Electrical systems	Series circuit
	Lesson sequence		<u>Lesson sequence</u>			Component
					<u>Lesson sequence</u>	



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1. Explore the cultural	<u>Technical</u>	1.Explore the importance of	<u>Technical</u>	1. Explore types and functions	<u>Technical</u>
food traditions of Mexico.	Vocabulary:	carbohydrates and the	Vocabulary:	of switches in a range of	Vocabulary:
Explain what a burrito is	Nutrient	difference between simple and	Sauté	products. Identify switches	Functionality
Identify reasons why some	Prove	complex carbohydrates.	Translucent	that have a single function and	Multi-function
common snacks are	Fry	Demonstrate the claw method	Dice	those that are multi-purpose.	Brief
unhealthy. Adapt		to dice vegetables safely. Cook		Suggest reasons why specific	Simultaneous
traditional Mexican		pasta and make a simple		switches have been used in	
recipes to create a healthy	Block B Core	tomato sauce. Use seasoning	Block D Core	particular appliances. Draw	Block F Core
snack. Combine flavours	Knowledge:	to adjust flavour	Knowledge:	circuit diagrams to represent a	Knowledge:
and textures and evaluate	Pulley	2.Explore the remedial	Guyed mast	circuit including a bulb or	Recycle
the results, making	Moveable pulley	qualities of food. Make a basic	Flying buttress	buzzer and a switch	Repurpose
suggestions for flavour	Fixed pulley	stock. Use a range of culinary	Load	2. Build circuits according to	Reduce
adjustments		techniques to prepare		specific criteria, using a range	
2. Identify reasons why	<u>Technical</u>	vegetables: dice, chop, grate,	<u>Technical</u>	of components. Define the	<u>Technical</u>
some common snacks are	Vocabulary:	pee.l Taste, discuss and	Vocabulary:	term simultaneous. Explore	Vocabulary:
unhealthy. Adapt	Block and tackle	suggest modifications to a final	Aesthetic	and build circuits that will	Chain
traditional Mediterranean	Rack and pinion	dish	Edifice	allow components to work	Seal
and Middle Eastern	Driver gear	3. Explore and use techniques	Constraints	independently of each other	Skein
recipes to create a healthy	Driven gear	to make food visually		and simultaneously (series and	
snack. Make pitta bread		appealing. Apply knife skills		parallel). Identify the circuits	
dough and cook safely.		learned in the previous		required for everyday	
Make hummus and		lessons. Select and arrange		appliances. Draw circuit	
identify its nutritional		colours and textures in a		diagrams to represent those	
content		visually attractive way.		circuits (series and parallel)	
3. Explore traditional		Evaluate the visual appeal of a		3. Identify the difference	
Indian snacks. Explain how		dish and suggest		between series and parallel	
the UK diet has been		improvements		circuits. Define the term brief.	
heavily influenced by				Apply knowledge of circuits	
migration from the Indian		Prior learning:		and switches to design and	
continent. Make samosas				make a product to fulfil a	



STOCKBRIDGE VILLAGE PRIMARY DT LONG TERM Pla	ın 2025/26	
from filo pastry. Explain	Explain what humans need to	design brief. Explain how a
how filo pastry is made	stay healthy, identify the main	product works and the circuits
and why, in some cases,	food groups, hold and use	involved. Identify and explain
buying pre made food is	utensils correctly	the advantages and
beneficial		disadvantages of the
		functionality of different
Prior learning:	DT Block D – How strong is a	products
Identify some traditional	piece of spaghetti?	
dishes and ingredients of		Prior learning:
different cultures, make,	<u>Structures</u>	Construct simple electrical
roll and cook flatbread,		circuits and name the
prepare a range of	<u>Lesson sequence</u>	components, recognise that a
vegetables, present food	1. Devise and carry out an	switch opens and closes a
to a high standard, explain	experiment to test the	circuit, give reasons for
the nutritional value of a	strength and stability of	variations in how components
range of foods	spaghetti. Through testing,	function in a circuit, use
	find ways to increase the	recognised symbols when
DT Block B – How do	weight that spaghetti can	representing a simple circuit
pulleys and gears help	withstand. Draw conclusions	
you see the world?	from observations and test	DT Block F – How can we
	results	reduce, recycle and
<u>Mechanisms</u>	2. Investigate the stability and	repurpose?
	strength of 3D shapes. Explore	
<u>Lesson sequence</u>	the effect of adding features	<u>Textiles</u>
1. Identify different pulley	such as flying buttresses to a	
systems such as fixed,	structure. Record observations	<u>Lesson sequence</u>
movable and compound	and evaluate outcomes	1. Explore ways in which
and explain how they	3. Identify the features that	objects and materials can be
work and their	make a tower more stable	repurposed. Crochet using
applications. Explore and	Explain how to use guy lines to	repurposed materials. Identify



compare the mechanical
advantage provided by
different pulley systems.
Explain what a block and
tackle is and identify its
common uses. Make
accurate measurements of
force using a Newton
meter. Draw conclusions
from results of
experimentation
2. Name and identify the
difference between
different types of gears
such as spur, worm and
bevel. Identify the
movement involved in a
rack and pinion system.
Apply knowledge of gear
trains to design and
construct a model Ferris
wheel. Make decisions
about aesthetics,
materials to be used and
the method of
construction. Evaluate
outcomes and make
reasoned suggestions for
modifications and
improvements

provide support for a tower Combine techniques and features to construct a stable tower from limited materials Identify ways in which a structure can be made more stable and modify a design as necessary

Prior learning:

Identify 2D shapes that have strength and stability, such as triangles, explain why cylinders are capable of bearing weight, create a truss, using a series of triangles properties of materials. Explain how a material's properties will determine its use 2.Explain how plastic is harmful to the environment. Identify properties of plastic. Create a skein of plastic yarn from plastic bags. Crochet a simple bag. Make a record of the processes completed 3. Explore the effects of waste on the planet. Join snack packets by applying heat. Identify properties of the materials used to make snack packets. Identify suitable alternative uses for recycled crisp packets. Design and

Prior learning:

Make a chain from yarn, identify properties of materials, explore the different properties of a range of fabrics and how these determine their uses

make a bag using recycled materials and evaluate results



Prior learning: Explain what a gear is and how it works, identify different types of gears and their applications, explore how direction and speed of movement is changed by using a system of gears and / or pulleys	
of gears and / or pulleys, construct a simple pulley system to lift a load	