	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Nursery	<ul> <li>Build independently with a range of resources (0-3)</li> <li>Explore different materials, using all their senses to investigate them. (0-3)</li> <li>Manipulate and play with different materials. (0-3)</li> <li>Explore different tools (0-3)</li> <li>Try new foods</li> </ul>	<ul> <li>Use their imagination as they consider what they can do with different materials. (0-3)</li> <li>Hold scissors correctly (0-3)</li> <li>Use a glue stick to add craft resources to paper. (0-3)</li> <li>Talk about healthy food choices</li> </ul>	<ul> <li>Make simple models which express their ideas (0-3)</li> <li>Make snips in paper with scissors (3-4)</li> <li>Use PVA to add craft resources to paper. (0-3)</li> <li>Colour finished work. (3-4)</li> <li>Talk about healthy food choices</li> </ul>	<ul> <li>Explore different materials freely, to develop their ideas about how to use them and what to make. (3-4)</li> <li>Make snips in paper with scissors with more control (3- 4)</li> <li>Explore different ways to join paper/ materials with support e.g. stapler, split pins, treasury tags, glue to create links, hole punch (3-4)</li> <li>Develop control of tools for food preparation e.g. using a knife for spreading.</li> </ul>	<ul> <li>Join different materials and explore different textures. (3- 4)</li> <li>Make snips in paper with scissors with more control (3-4)</li> <li>Explore different ways to fold paper. (3-4)</li> <li>Cover a box with paper. (3-4)</li> <li>Develop control of tools for food preparation e.g. using a knife for chopping/ spreading, spoons for mixing.</li> </ul>	<ul> <li>Develop their own ideas and then decide which materials to use to express them. (3-4)</li> <li>Talk about what they will make and how they will make it. (3- 4)</li> <li>Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park. (3-4)</li> <li>Begin to cut a straight line (3-4)</li> <li>Develop control of tools for food preparation e.g. using a knife for chopping/ spreading, spoons for mixing.</li> </ul>
Previous learning:						
Preparing for:	Creating and building their own models later in Nursery and in Reception	Using their imagination to design and create	Developing some of the fine motor skills	Developing some of the fine motor skills that they will use	Developing the concept of joining different components in different	Developing children's imaginations in preparation for verbal,

Bespoke to our school:	Preparing and exploring healthy foods is an important part of our whole school vision to promote healthy lifestyles and physical well being.	products further through the school. Preparing and exploring healthy foods is an important part of our whole school vision to promote healthy lifestyles and physical well being	that they will use and refine in later years. Encouraging pride in their learning outcomes is integral to building early work ethic that informs our school culture and is driven by our "World of Work" business links	and refine in later years. Encouraging pride in their learning outcomes is integral to building early work ethic that informs our school culture and is driven by our "World of Work" business links	ways, preparing them for later units of learning involving structures and mechanisms. Following research into the science of learning, we have designed a DT curriculum that enables children to retrieve, build on and refine their skills.	and later written, story telling. Children in our setting have often not had access to vocabulary rich "talk a lot" environments where they can talk about their experiences with different tools and resources.
Reception	<ul> <li>Create models using their experiences and world around them as inspiration.</li> <li>Talk about what they are making.</li> <li>Continue to develop a range of different ways to join materials and construction kits.</li> <li>Cut a straight line.</li> <li>Colour finished work</li> <li>Build models with a range of construction resources e.g. lego.</li> <li>Develop control of tools for food preparation e.g. knife for chopping/ spreading.</li> </ul>	<ul> <li>Use ideas from imagination to make something</li> <li>Talk about their design ideas and what they are making.</li> <li>Cut a curved line</li> <li>Colour finished work</li> <li>Fold around a tube</li> <li>Draw around simple templates and shapes.</li> <li>Add detail to models built with construction resources e.g. lego.</li> </ul>	<ul> <li>Use a range of resources and techniques to make decisions about what they will make and how they will make and how they will make and how they will make it.</li> <li>Draw with control around a template</li> <li>Cut around a simple shape template</li> <li>Use joining techniques independently to make decisions on how they will make something.</li> <li>Colour finished work</li> <li>Fold around a tube</li> <li>Use junk modelling to</li> </ul>	<ul> <li>Use a range of materials and tools with care, independence and precision to create a model.</li> <li>Use scissors to cut around a template.</li> <li>Cover a box with paper.</li> <li>Use folding techniques to support them to make a model.</li> <li>Aware of some of the tools, techniques and processes involved in food preparation.</li> </ul>	<ul> <li>Children to talk about their ideas with others.</li> <li>Use scissors to cut around a template.</li> <li>Explore how split pins can be used to make different movements.</li> <li>Make independent decisions about finishing techniques.</li> <li>Create detailed models for a purpose from a range of resources including junk modelling.</li> <li>Begin to use a variety of tools, techniques and processes to prepare food.</li> </ul>	<ul> <li>Create a design and follow it to create a model.</li> <li>Use joining techniques e.g. split pins to create models that move.</li> <li>Cut around a template/ outline with precision.</li> <li>Children to work collaboratively, sharing ideas, resources and skills.</li> <li>Children to evaluate their models by talking about what went well with their model and what they could improve.</li> <li>Begin to use a variety of tools, techniques</li> </ul>

		<ul> <li>Develop control of tools for food preparation e.g. knife for chopping/ spreading.</li> </ul>	<ul> <li>create models by making decisions about what they will use and how they will join materials.</li> <li>Aware of basic hygiene and safety during food preparation.</li> </ul>			and processes to prepare food.
Previous learning: Preparing for: Bespoke to our school:	In Nursery, children have been gaining experience with different tools and equipment. Developing the concept of joining different components in different ways, preparing them for later units of learning involving structures and mechanisms. Children in our setting have often not had access to vocabulary rich "talk a lot" environments where they can talk about their experiences with different tools and resources.	In Nursery, children began to develop their imagination and creativity which they will now build on as they become early designers. They refine their early experience with scissors as they begin to use them in different and specific ways. Later learning on structures as they progress into KS1 and KS2.	As they refine the early pencil technique and grip that they used to add colour in Nursery, children begin to draw their designs with control. Developing the control and fine motor skills required for textiles and more detailed drawings in their KS1 and KS2 design work. Encouraging pride in their learning outcomes is integral to building early work ethic that informs our school culture and is driven by our "World	Building on a more exploratory approach to using materials in Nursery, children will now manipulate materials in more specific ways eg) folding and covering. Preparing for creating their own packaging appropriate for a food product in Year 4.	Building on their learning on how to join materials, children begin to explore moving joins in preparation for moving models that they will create in KS1 and KS2 as part of their mechanisms learning. Children in our setting have often not had access to vocabulary rich "talk a lot" environments where they can talk about their experiences with different tools and resources.	Building on the designing and making elements of Nursery, children now begin to evaluate their products verbally in preparation for more critical and recorded evaluation of their own and existing products in KS1 and KS2. Early Years DT provides a vehicle through which teachers and support staff can model and encourage collaborative work between pairs and groups of children, which appears to be happening far less naturally post covid.
		Children in our setting have often	driven by our "World			

		not had access to vocabulary rich "talk a lot" environments where they can talk about their experiences with different tools and resources.	of Work" business links		
	<ul> <li>Food- Science: Animals including humans</li> <li>All food comes from plants or animals</li> <li>5 a day</li> </ul>	Textiles: Templates and Joining Hand Puppets History- Old Toys		Mechanisms Sliders and Levers: Make a moving picture Make the fire engine move across the page History- Fire of London	
	Building on the "Eating Well" strand of our Early	Children further develop the early		Developing greater precision when	
-	Years curriculum.	fine motor skills that		manipulating	
Preparing		they used to		materials.	
	Preparing for working	manipulate scissors			
	alongside local business	in the early years as		Preparing for their	
	"The Ashbourne" to design	they begin to sew.		Year 3 mechanisms	
	a healthy Tapas menu in			learning where	
	Year 3.	Preparing for		children will be given	
		learning an		more freedom to	
	Healthy eating and physical	increasing variety of		make a model which	
	well- being form an integral	stitches suitable for		moves in a wider	
	part of our whole school vision born out of the2021	different purposes in KS2 eg) back stitch		variety of ways.	
	height and weight check	to create their own		Following research	
	statistics which revealed	beach bags in Year 3.		into cognitive	
	that obesity levels in our	Seach Sugs III real 3.		overload, our	

	school are above the	Our curriculum is		curriculum uses	
	national and local authority	designed to promote		skills, vocabulary,	
	average.	cross curricular links		objects and contexts	
	average.	only where		that children are	
		purposeful and		already fluent and	
		meaningful and does		familiar with	
		not incorporate		alongside the	
		tenuous links or		acquisition of new	
		cause confusion		skills so not to	
		between specific		detract from the	
		disciplines by		main objective. By	
		blending them in a		using the familiar	
		"Topic" based		design of a fire	
		approach.		engine, children are	
				able to focus on the	
				new learning around	
		- · ·		levers and sliders.	
Year 2	Food- Science:Animals	Structures:	Mechanisms:		
	including humans	Freestanding	Wheels and Axels		
	Name and sort foods on the	Playground	Stand alone		
	eat well plate	Equipment			
-		Stand alone			
Previous	Building on the "Eating	Building on	Children build on		
learning:	Well" strand of our Early	children's	their ability to move		
	Years curriculum and the	understanding of the	things using sliders		
Preparing	knowledge of where food	properties of	and levers as they		
for:	comes from in Year 1	materials and how	begin to facilitate		
		to manipulate and	movement through		
Bespoke to	Preparing for working	join them, children	the use of wheels and		
our school:	alongside local business	embark upon their	axels.		
	"The Ashbourne" to design	first "Structures"			
	a healthy Tapas menu in	unit of learning.	Preparing for		
	Year 3.		widening their		
		Children begin to	movement schema		
	Healthy eating and physical	compare the	further as they add		
	well-being form an integral	strength of different	pneumatic air		

part of our whole school	shapes in	powered movement,
vision born out of the 2021	preparation for	cams and movement
height and weight check	corrugating and	powered by
statistics which revealed	ribbing in Year 4.	electricity in KS2.
that obesity levels in our		
school are above the	Following research	Following research
national and local authority	into the science of	into the science of
average.	learning, our DT	learning, our DT
	curriculum enables	curriculum enables
	children to revisit	children to revisit and
	and build on their	build on their
	understanding of	understanding of
	structures in each	moving mechanisms
	successive year.	in each successive
		year.

## Key Stage 2

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 3		Food: History- Stone,	Textiles		Mechanisms	
		Bronze and Iron Age	2D shape to 3D		Pneumatics	
		(Transition from hunter	product		Moving Olympic mascot	
		gatherers to farmers)	Drawstring Beach			
		Food can be	Bag			
		farmed, grown				
		elsewhere or	Food- Geography			
		caught.	Spanish Tapas with			
		• Food is grown,	Ashbourne			
		reared and caught	<ul> <li>Ingredients can</li> </ul>			
			be combined			
			according to			
			their sensory			
			characteristics			
			Eat well plate			
			Food is			
			processed into			
			ingredients that			

		can be eaten or	
		used in cooking	
		<ul> <li>Fresh, pre-</li> </ul>	
		cooked and	
		processed	
Previous	Building on Year 1	Building on Year 1	Building on previously
learning:	learning of where our	where children	taught methods of
	food comes from,	learned a basic	movement ( sliders and
Preparing	children look at this in	stitch, children now	levers, wheels and axels)
for:	more detail as their	learn to use a back	
	History learning on the	stitch.	Children explore how air
Bespoke to	difference between		can be trapped and
our school:	hunting and gathering	Preparing for more in	forced into different
	and farming and the	depth textiles	chambers to power
	impact of the discovery	learning and stitching	movement in preparation
	of farming on how	for a wider variety or	for using cams and
	people settled and	purposes and	electricity to power
	lived helps them to	products in later	movement in Years 5 and
	understand how food	years.	6.
	can be grown, reared		
	and or caught.		Following research into
			the science of learning,
	Preparing for		our DT curriculum
	understanding of how		enables children to revisit
	our body utilises the		and build on their
	different food groups in		understanding of moving
	Year 4 and 6.		mechanisms in each
			successive year.
	Healthy eating and		
	physical well-being		
	form an integral part of		
	our whole school vision		
	born out of the 2021		
	height and weight		
	check statistics which		
	revealed that obesity		

		levels in our school are above the national and local authority average.		
Year 4	<ul> <li>Food- Geography (Imported foods discussed with ABP)</li> <li>Seasons affect the food available</li> <li>Food miles and the environmental impact</li> </ul>	<ul> <li>Food- Science (Digestive System)</li> <li>Food and drink provide energy for the body.</li> <li>Nutrients, water and fibre are needed for health</li> </ul>	Structures: Shell structures Biscuit packaging Stand alone	Mechanisms: Circuits and switches Stand alone (after Electricity Science unit)
Previous	Children build on their		Children build on	Building on use of
learning:	learning of how food is		their learning of	pneumatic power as
_	sourced as they learn		stronger and weaker	they begin to use
Preparing	how the foods are		shapes from their	electricity to power
for:	transported from their		Year 2 structures	their own torch.
	source location to the		learning as they learn	Building on an earlier
Bespoke to	supermarkets and other		to corrugate and rib	Science unit in which
our school:	shops.		materials to add	children developed a
			strength.	fluent understanding
	Their Year 6 careers			of electrical circuits.
	project where they		Preparing for joining,	
	further their		building and	Preparing for using
	understanding of local		reinforcing strong	electrical circuits to
	industry and for their		frames as part of	power a wider range
	future careers.		their Year 5	of output variables to
			structures learning.	design a fair ground
	Strong and purposeful			ride in Year 6.
	links to our local physical		Following research	
	and human Geography as		into the science of	Following cognitive
	children build an		learning, our DT	load theory, children
	understanding of how		curriculum enables	use their prior learning
	having the largest UK port		children to revisit	of electrical circuits,
	on their doorstep makes		and build on their	with which they have
	Immingham a key		understanding of	developed a fluency

	location in the		structures in each		that enables them to
	transportation of food		successive year.		focus on the design,
	products. Commonly				execution and
	imported foods are				evaluation of their
	highlighted to the				working product.
	children in a meeting with				working product.
	•				
	a manager from				
Maan F	Associated British Ports.	N A a ala a a i a a a a	Churchard		
Year 5		Mechanisms:	Structures:		
		Cams	Frames		
		Moving advertisement	Make a shelter		
		Stand alone	Stand alone		
Previous		Building on experience	Building on previous		
learning:		of using levers and	learning on using		
		sliders, wheels and	different shapes,		
Preparing		axels and pneumatics	corrugating and		
for:		to power movement,	ribbing methods to		
		children learn how to	build strong		
Bespoke to		use cams to facilitate	structures, children		
our school:		motion in a moving	will work		
		advertisement	collaboratively to		
			make the strongest		
		Preparing for building	possible frame for		
		on the concept of	, their shelter.		
		rotation, belts and			
		pulleys and combing	Preparing for joining		
		this with their Year 4	the frame of their		
		knowledge of electrical	fairground to the		
		circuits to design, make	axel in their Year 6		
		and power a	fairground ride.		
		functioning fairground	Developing early		
		ride in Year 6.	engineering		
		Thue III fedi 0.	<b>u</b>		
		Depted in the Colones	knowledge of how to		
		Rooted in the Science	strengthen joins that		
		of learning, our DT	will prepare them for		
		curriculum plans for	their secondary		

		opportunities for children to retrieve learning on how to power movement and use this sticky knowledge to extend their movement schema.	education and perhaps for the engineering career opportunities that drive the economy of their home town such as pipe fitting, welding, tinning, fabrication and roles within the wind turbine industry which are ever increasing with government investment into renewable energy around the Humber bank.		
Year 6	Food: Science, Animals Including Humans • Nutrients, water and			Mechanisms: Electricity and Coding/ Circuits and Control	
	fibre are needed for health			Make a fairground ride	
Previous	Building on previous			This project is a	
learning:	learning in Year 3 about			culmination of the	
	the "Eat Well Plate"			children's previous	
Preparing				learning around wheels	
for:	Healthy eating and			and axels, rotation and	
	physical well-being form			pulleys, joining strong	
Bespoke to	an integral part of our			frames and utilising	
our school:	whole school vision born			electrical circuits.	
	out of the 2021 height			Children now challenge	
	and weight check			themselves to apply these	
	statistics which revealed			multiple concepts in	
	that obesity levels in our			tandem to design and	

school are above the national and local	create a functioning product.
authority average.	product.
authonty average.	Developing early
	engineering knowledge of
	how to strengthen joins
	that will prepare them for
	their secondary education
	and perhaps for the
	engineering career
	opportunities that drive
	the economy of their
	home town such as pipe
	fitting, welding, tinning,
	fabrication and roles
	within the wind turbine
	industry which are ever
	increasing with
	government investment
	into renewable energy
	around the Humber Bank.