

Hardingstone Academy DT Curriculum Overview



Mechanisms		Food	Textiles	Structures	Mechanical Systems	Electrical Systems
	No A	V2	V 2	Mara A	VE	No C
	Year 1	Year 2	Year3	Year 4	Year 5	Year 6
Autumn	Sliders and Levers	ers and Levers Techniques Techniques Shell Structures / Shell Structures / Shell Structures using Computer-Aided Design (CAD)		Cams	Combining Different Fabric Shapes / Using CAD in Textiles	
	Mechanisms	Textiles	Mechanical Systems	Structures	Mechanical Systems	Textiles
pring	Freestanding Structures	Preparing Fruit and Vegetables	Pneumatics	2-D Shape to 3-D Product	Frame Structures	More Complex Switches and Circuits
0)	Structures	Food	Mechanical Systems	Textiles	Structures	Electrical Systems
immer	Wheels and Axles		Healthy and Varied Diets	Simple Circuits and Switches	Celebrating Culture and Seasonality	Pulleys or Gears
Su	Mechanisms		Food	Electrical Systems	Food	Mechanical Systems





						ut	Sp	r S	um				
Y	ear	1					1	2 1 2		Key Vertical DT Links	Horizontal/Diagonal Links		
	ign	Generate ide experiences,	eas based on simple des explaining what they co	ign criteria and their own ould make						Moving and Handling Children show good			
	Des	Develop, model and communicate their ideas through drawings and mock-ups with card and paper.								control and co-ordination in large and small			
Toys		Plan by sugg							They move confidently in a range of ways, safely				
1aking	Make	Select and use tools, explaining their choices, to cut, shape and join paper and card. Use simple finishing techniques suitable for the product they are creating.								negotiating space They handle equipment	Yea Identify th	r 1 Autumn 2 Science e material objects are made	
ers – N										and tools effectively, including pencils for writing.	from. Des proper	cribe some simple physical ties of materials. Group	
nd Lev	uate	Explore a range of existing books and everyday products that use simple sliders and levers. Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria								Exploring and using media	prope materi	rties. Explore everyday als which are opaque or	
iders a	Eval									and materials children sing songs, make		transparent.	
SI	le eg	Explore and	use sliders and levers.							experiment with ways of			
	echnica owledg	Understand t movement.	that different mechanis	ms produce different types of						changing them. They safely use and explore a variety			
	Ϋ́Ψ	Know and us	e technical vocabulary i	elevant to the project						techniques, experimenting with colour, design,			
ent	sign	Generate ideas based on simple design criteria and their own experiences, explaining what they could make.								texture, form and function.	Yea	r 1 Autumn 2 Science	
quipm	De	Develop, mo mock-ups an	del and communicate tl d drawings.	neir ideas through talking,						Being imaginative Children use what they have learnt about media	from. Describe some simple physical properties of materials. Group together materials by their physical properties. Explore everyday		
ound E	Make	Plan by sugg	esting what to do next.							and materials in original ways, thinking about users			
Jaygro		Select and us	se tools, skills and techn	iques, explaining their choices						and purposes. They represent their own ideas,	materi	als which are opaque or transparent.	
Iding I		Select new a their structur	nd reclaimed materials res.	and construction kits to build						thoughts and feelings through design and technology art music	Yea Recognis	ar 1 Spring 1 Science te a variety of widely used	
s – Bu		Use simple fi creating.	inishing techniques suita	able for the structure they are						dance, role play and stories	materials. Understand why materials are chosen for specific tasks. Know		
ucture	uate	Explore a range of existing freestanding structures in the school and local environment e.g. everyday products and buildings.								Shape, space and measures	how to strengt materials	test materials for their h; understand that some are nature, and some are	
ding Str	Evalı	Evaluate their product by discussing how well it works in rel to the purpose, the user and whether it meets the original d criteria.								language to talk about size, weight, capacity, position,	man-made.		
eestan	inical /ledge	Know how to more stable	Know how to make freestanding structures stronger, stiffer and more stable							to compare quantities and objects and to solve	Recognise example,	e and name 3-D shapes [for cuboids (including cubes),	
Fre	Tech Know	Know and us	e technical vocabulary i	elevant to the project.						problems. They recognise, create and describe	pyramids and spheres]		
	sign	Generate init and using ow	tial ideas and simple de vn experiences.	sign criteria through talking						patterns. They explore characteristics of everyday	Yea Identify the	r 1 Autumn 2 Science e material objects are made	
	De	Develop and	communicate ideas thr	ough drawings and mock-ups.						mathematical language to describe them.	from. Des proper	cribe some simple physical ties of materials. Group	
Vehicl€	ke	Select from a practical task	and use a range of tools <s and="" as="" cutting="" jo<="" such="" td=""><td>and equipment to perform ining to allow movement and</td><td></td><td></td><td></td><td></td><td></td><td>Technology</td><td>together prope materi</td><td>materials by their physical rties. Explore everyday als which are opaque or</td></s>	and equipment to perform ining to allow movement and						Technology	together prope materi	materials by their physical rties. Explore everyday als which are opaque or	
king a ^v	Ма	Select from a	and use a range of mate	rials and components such as						range of technology is used in places such as homes		transparent.	
i – Mal	ate	Explore and	Explore and evaluate a range of products with wheels and axles.							and schools. They select and use technology for	Yea Recognis	ar 1 Spring 1 Science e a variety of widely used	
d Axels	Evalu	Evaluate thei criteria.	Evaluate their ideas throughout and their products against original							particular purposes.	are chose how to	en for specific tasks. Know test materials for their	
/heels an	wledge	Explore and	criteria. Explore and use wheels, axles and axle holders.							Children follow instructions involving several ideas or actions.	strengt materials	h; understand that some are nature, and some are man-made.	
8	iical Kno	Distinguish b	etween fixed and freely	moving axles.						They answer 'how' and 'why' questions about their experiences and in	Yea Recognise	r 1 Autumn 2 Maths and name 3-D shapes [for	
	Fechn	Know and us	e technical vocabulary i	elevant to the project.						response to stories or events.	example, pyi	cuboids (including cubes), ramids and spheres]	
	Mech	anisms	Food	Textiles		<u> </u>	 	Stru	ctu	res Mechanical	Systems	Electrical Systems	



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Voar 2							Spr	· Su	ım	Key Vertical DT	Horizontal/Diagonal Links		
ľ	ear	<u>د</u>			1	2	12	2 1	2	Links			
haracter	Design	Design a fui user and pu Generate, c appropriate and informa	nctional and appealing pr irpose based on simple d levelop, model and comn e through talking, drawing ation and communication	oduct for a chosen esign criteria. nunicate their ideas as g, templates, mock-ups technology						EVES	Year 1 Autumn 2 Science Identify the material objects are made from. Describe some simple physical properties of materials.		
g Techniques - Creating a Ch	Make	Select from perform pra and finishin Select from	and use a range of tools actical tasks such as mark g. and use textiles accordir	and equipment to ing out, cutting, joining g to their						Explored and used different fabrics.	Group together materials by their physical properties. Explore everyday materials which are opaque or transparent.		
	Evaluate	characterist Explore and relevant to Evaluate the against orig	tics I evaluate a range of exist the project being undert eir ideas throughout and inal design criteria.	ting textile products aken. their final products						Cut and joined fabrics with simple techniques.	Year 1 Spring 1 Science Recognise a variety of widely used materials. Understand why materials are chosen for specific tasks. Know how to tost materials		
and Joini	edge	Understand using a tem	now simple 3-D textile products are made, late to create two identical shapes.							Year 1 DT Thought about the	for their strength; understand that some materials are nature, and some are man-made.		
ates	Iwou	Understand e.g. running	rstand now to Join fabrics using different techniques unning stitch, glue, over stitch, stapling.							user and purpose of products.			
Templa	Technical K	Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequins, buttons and ribbons.								P	Year 1 Autumn 2 Maths Recognise and name 3-D shapes [for example, cuboids (including		
		Know and u	ise technical vocabulary r	elevant to the project							cubes), pyramids and spheres]		
ld		Design appealing products for a particular user based on simple design criteria.											
ie wor	Design	Generate in investigatin	ate initial ideas and design criteria through gating a variety of fruit and vegetables.							EYFS Experience of	Year 1 Autumn 1 Science		
ound th		Communica	Communicate these ideas through talk and drawings.							common fruit and vegetables,	taking care of your body. Learn about the senses of hearing and		
om ar	a	Use simple squeeze, gr	imple utensils and equipment to e.g. peel, cut, slice, eze, grate and chop safely.							undertaking sensory activities i.e. appearance taste and smell.	smell.		
is - Food fi	Mak	Select from their charac a chosen pr	Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to create a chosen product.								Year 1 Spring 2 Science Understand that some food is grown as a crop on a farm.		
etable	uate	Taste and e determine t	valuate a range of fruit a the intended user's prefe	nd vegetables to rences.						EYFS Experience of cutting	Know about different arable crops grown by farmers.		
nd Veg	Eval	Evaluate ide including in	eas and finished products tended user and purpose	against design criteria,						soft fruit and vegetables using	Year 2 Autumn 1 Science		
Fruit a	rledge	Understand where a range of fruit and vegetables come from e.g. farmed or grown at home.								appropriate utensils.	food grown by farmers.		
Preparing F	nnical Know	Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of The Eatwell plate.								Year 1 DT Design and Evaluate	makes form the farm to the supermarket.		
	Tech	the project.	Know and use technical and sensory vocabulary relevant to the project.										
	Mech	anisms	Food	Textiles			S	tru	ctu	res Mechanico	Il Systems Electrical Systems		

	Topological and								_	υ	•		unicu	ium			East Midlands Academy Trust
Y	'ear 3	3						A 1	Aut 2	Spr 12	Su 1	ım 2	Key Vertio Links	cal DT S	Horiz	/Diagonal Links	
ıts	Design	Genera discuss Use an commu	te re ion, f notat inicat	ealistic ideas focusing on t ted sketches te ideas.	and their c he needs c and proto	own design of the user. types to de	criteria through velop, model ar	nd					Year 1 Aut	tumn	Yea Introduc about t ligaments musc	ar 3 Aut ction to the skel s. Explo cles are	tumn 2 Science the skeleton. Know eton – tendons and re how skeletons and used for support.
evers and Linkages - Human Jo	Make	Order t Select f shape a Select f	r the main stages of making. It from and use appropriate tools with some accuracy to cut, e and join paper and card. It from and use finishing techniques suitable for the product are creating.					cut, luct					Explored and mechanisms flaps, slider levers	d used such as rs and	prot Ye Explain w Invest twisting a	tection ear 2 Sp vhy we u igate sc and stre	and movement. pring 2 Science use certain materials. quashing, bending, etching. Compare the
	Evaluate	Investig produc Evaluat needs,	gate a ts wit te the as th	and analyse th lever and eir own prod ney design ar	books and, linkage me ucts and id d make.	, where ava echanisms. deas agains	illable, other t criteria and us	er					Year 1 Sun Gained expe of basic cut joining and fi techniques	nmer erience tting, inishing with	uses Ye Recogn materials are chor	Vear 1 Spring 1 Science Recognise a variety of widely use materials. Understand why mater	
Γĕ	Technical Knowledge	Unders Disting Know a	tand uish t ind us	and use leve between fixe se technical	er and linka d and loos vocabulary	age mecha se pivots. y relevant t	nisms. o the project.						paper and	card.	how t streng materia	to test r th; und ls are na ma	naterials for their erstand that some ature, and some are n-made.
nt	Design	Genera criteria Use an commu	te re thro notat inicat	ealistic and a ough discussi ted sketches te ideas.	opropriate on, focusin and proto	ideas and ng on the n types to de	their own desigr eeds of the user velop, model ar	n nd					Year 1 Aut Explored si mechanisms as sliders	tumn imple s, such and	Ye a Comp	ar 3 Aut bare hov differe	tumn 2 Science w things move on nt surfaces.
s and moveme	Make	Order t Select f and join balloor	the main stages of making. from and use appropriate tools with some a bin materials and components such as tubing, ons.				me accuracy to Ibing, syringes a	cut nd					levers, and structur Year 1 Aut Year 1 Sun	simple es. tumn nmer	Year 2 Spring 2 Science Explain why we use certain materials. Investigate squashing, bending, twisting and stretching. Compare the		
natics - Force	luate	Select f they ar Investig pneum	rom e crea gate a atic n	and use finis eating. and analyse mechanisms.	hing techr	niques suita eos and pro	able for the proc	luct					joined to a moveme	aterials can be ined to allow movement.	Year 1 Spring 1 Science Recognise a variety of widely us materials. Understand why mate		ryday materials. pring 1 Science riety of widely used prstand why materials practific tecks. Know
Pneur	chnical wledge	Evaluate their own products and ideas against criteria and user needs, as they design and make. Understand and use pneumatic mechanisms.											Year 2 Aut Joined a combined m using simple	tumn and aterials e tools	how t streng materia	to test r th; und ls are na mai	naterials for their erstand that some ature, and some are n-made.
	sign Kno	Genera adults t texture and pu	te an to dev and	nd clarify ide evelop desigr aroma for a e.	as through criteria in n appealing	discussior cluding ap g product f	o the project with peers and bearance, taste, or a particular u	ser					Year 2 Sp Know some	and techniques. Year 2 Spring	Year 1 Autumn 1 Science Understand the importance of taking care of your body. Learn about the senses of hearing and smell. Year 1 Spring 2 Science		
road	Ď	Use an commu develo	notat inicat o and	ted sketches tion technol d communica	and appro ogy, such a te ideas.	priate info as web-base	rmation and ed recipes, to						prepare ingr safely a hygienica	edients nd ally.			
Lunch on the	Make	Plan the main stages of a recipe, listing ingredients, utensils and equipment. Select and use appropriate utensils and equipment to prepare and combine ingredients.				nd e					Year 2 Spring Have some basic knowledge and	e basic e and nding	Understand that some food is grown as a crop on a farm. Know about different arable crops grown by farmers.				
Varied Diets -	uate	Select from a range of ingredients to make appropriate food products, thinking about sensory characteristics. Carry out sensory evaluations of a variety of ingredients and products. Record the evaluations using e.g. tables and simple								about hea eating and Eatwell pl	althy d The late.	Know abo Understa form th	out diffe grown and the e farm t	erent sources of food by farmers. journey food makes to the supermarket.			
ealthy and	dge Evali	Evaluat to the o	graphs. Evaluate the ongoing work and the final product with reference to the design criteria and the views of others. Know how to use appropriate equipment and utensils to prepare					ce					Year 2 Sp Have used equipmen utensils a	oring some tand and	۲ I can sort groups body ne	/ear 2 S t foods and kno eeds ev	pring 2 PSHE into the correct food ow which foods my ery day to keep me
He	hnical Knowlec	and con Know a approp reared	and combine food. Know about a range of fresh and processed ingredients appropriate for their product, and whether they are grown, reared or caught.									prepared combin ingredients t a produ	and ed to make lot.	healthy. eat to g make explain	I can d give my some h why th	can decide which foods to ve my body energy. I can ome healthy snacks and vhy they are good for my body.	
	Mech	approp anisms	riate	lly. Fo	od		Textiles			St	ruc	tui	res	es Mechan		Ele	ctrical Systems





						nr	Sum	Kow Vortical DT			
Year 4				2	1	2	12	Links	Horizontal/Diagonal Links		
r equipment	sign	Generate realistic ideas and design criteria collaboratively through discussion, focusing on the needs of the user and purpose of the product.									
	De	Develop ideas through the analysis of existing products and use annotated sketches and prototypes to model and communicate ideas.									
s fo		Order the main stages of making.							Year 2 Spring 2 Science Explain why we use certain materials. Investigate squashing, bending, twisting and stretching. Compare the		
ntainer	1ake	Select and use appropriate tools to measure, mark out, cut, score, shape and assemble with some accuracy.						Year 3 Autumn Experience of using different joining.			
: AD) - Co	2	Explain their choice of materials according to functional properties and aesthetic qualities. Use finishing techniques suitable for the product they are creating						cutting and finishing techniques with paper and card.	uses of everyday materials. Year 3 Spring 2 Maths		
using C	uate	Investigate and evaluate a range of existing shell structures including the materials, components and techniques that have been used.						Make 3-D shapes usir materials; recognise 3 different orientations	Make 3-D shapes using modelling materials; recognise 3-D shapes in		
ures (I	Eval	Test and evaluate their own products against design criteria and the intended user and purpose							different orientations and describe them		
Struct	nical edge	Develop and use knowledge of how to construct strong, stiff shell structures.									
Shell	Techr Knowl	Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes. Know and use technical vocabulary relevant to the project									
	ign	Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose and specific user/s.									
cts	Des	Produce annotated sketches, prototypes, final product sketches and pattern pieces.						Year 2 Autumn	Vear 2 Spring 2 Science		
rodu		Plan the main stages of making.						simple ways by gluing			
able pi	Make	Select and use a range of appropriate tools with some accuracy e.g. cutting, joining and finishing.						and stitching.	Explain why we use certain materials. Investigate squashing, bending, twisting and stretching. Compare the uses of everyday materials. Year 3 Spring 2 Maths Draw 2-D Shapes. Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe		
- Reus		Select fabrics and fastenings according to their functional characteristics e.g. strength, and aesthetic qualities e.g. pattern.						Year 2 Autumn Have used simple			
roduct	aluate	Investigate a range of 3-D textile products relevant to the project.						patterns and templates for marking out.			
3-D P		Test their product against the original design criteria and with the intended user.									
oe to	Ε<	Take into account others' views.					_	Year 2 Autumn	them.		
D Shap		Understand how a key event/individual has influenced the development of the chosen product and/or fabric.						Year 2 Spring Have evaluated a range of textile			
2-	cal dge	Know how to strengthen, stiffen and reinforce existing fabrics.				$\left \right $	_	products			
	chni wle	Understand how to securely join two pieces of fabric together.	┢			\square	_	-			
	Te	Know and use technical vocabulary relevant to the project.	+			\square	-	-			
	Design	Gather information about needs and wants and develop design criteria to inform the design of products that are fit for purpose, aimed at particular individuals or groups. Generate, develop, model and communicate realistic ideas through						-			
Light		discussion and, as appropriate, annotated sketches, cross-sectional and exploded diagrams.	1						Year 3 Summer 2 Science		
- Se		Order the main stages of making.	-	\square		\mathbb{H}		Year 2 Autumn	ERUC - DESCUDE HOW IRLUCTAVELS		
itch	ke	select from and use tools and equipment to cut, shape, join and finish with some accuracy.						Year 3 Autumn/Spring	Year 4 Summer 2 Science		
and Sw	Ma	Select from and use materials and components, including construction materials and electrical components according to their functional						variety of construction materials, such as	Identify when a lamp will light in a simple series circuit. Understand the		
lits a	(D	properties and aesthetic qualities	┢	\vdash	-	\vdash		wood, card, plastic, reclaimed materials	difference between a series and a parallel circuit. Explain how to		
le Circu	Evaluate	Evaluate their ideas and products against their own design criteria and identify the strengths and areas for improvement in their work.						and glue.	recognise electrical conductors and insulators. Explore how electricity is		
Simpl	Technical inowledge	Understand and use electrical systems in their products, such as series circuits incorporating switches, bulbs and buzzers. Apply their understanding of computing to program and control their products.							safely with electricity.		
		Know and use technical vocabulary relevant to the project.									
	Mech	anisms Food Textiles		S	tri	ucti	ires	Mechanical	Systems Electrical Systems		



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									Sun	Key Vortical DT	Horizontal/
Y	ear	6				1	21	2	1	links	Diagonal Links
		Generate innov	vative ideas by carrying out re	esearch including surveys. in	iterviews and	ا ا	- -	-			
ent Belt	esign	questionnaires Develop, mode	and communicate ideas thr	ough talking, drawing, temp	plates, mock-ups						Year 5 Autumn 1 Science
quipme	Ō	Design purposeful, functional, appealing products for the intended user that are fit for purpose based on a simple design specification									Describe the properties of different materials.
I / E		Produce detailed lists of equipment and fabrics relevant to their tasks.								Year 4 Spring	Compare the
Too	a	Formulate step-by-step plans and, if appropriate, allocate tasks within a team.								Experience of basic stitching joining textile	properties and uses
- sadeu	Mak	Select from and use a range of tools and equipment to make products that are accurately assembled and well finished.								and finishing techniques	materials.
ic Sł		Work within the constraints of time, resources and cost								Year 4 Spring	Year 3 Autumn 2 Maths
abr		Investigate and	l analyse textile products link	ed to their final product.						Experience of making	Draw 2-D Shapes.
entF	ate	Compare the fi	nal product to the original de	esign specification.						and using simple pattern pieces.	n Make 3-D shapes using modelling
Differe	Evalu	Test products v manufacture, f	with intended user and critica unctionality and fitness for province of the second s	Ily evaluate the quality of thurpose.	ne design,					-	materials; recognise 3-D shapes in
ing		Consider the vi	ews of others to improve the	ir work.							different orientations and
Combin	chnical wledge	A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics								-	describe them.
Ŭ	Teo Kno	Fabrics can be	strengthened, stiffened and r	einforced where appropriat	te.						
rms	ßu	Use research to develop a design specification for a functional product that responds automatically to changes in the environment. Take account of constraints including time, resources and cost.								- Vear A Summer	
Ala	Desi	Generate and develop innovative ideas and share and clarify these through discussion.								Understanding of the	Vear 6 Autumn 2
ecurity		Communicate ideas through annotated sketches, pictorial representations of electrical circuits or circuit diagrams.								essential characteristics of a series circuit and	Science Explain how objects
s - S	Make	Formulate a ste	ep-by-step plan to guide mak	ing, listing tools, equipment	, materials and					battery powered,	become charged. Describe the parts of an electric circuit. Explain what effects
Circuits		Competently se components to	elect and accurately assemble produce a reliable, function	e materials, and securely con al product.	nnect electrical					functional, electrical product.	
es and		Create and modify a computer control program to enable an electrical product to work automatically in response to changes in the environment								Year 4 Summer	the output of a circuit. Explain how variable resistors
witche	ate	Continually eva design specifica	aluate and modify the workin ation.	g features of the product to	match the initial					Initial experience of using computer control	can work like a switch. Compare
lex 9	valu	Test the system to demonstrate its effectiveness for the intended user and purpose.								interface box or a	electrical conductors
Compl		Investigate famous inventors who developed ground-breaking electrical systems and components.								standalone box, e.g. writing and modifying a	Build a set of traffic lights.
lore	ical edge	Understand and use electrical systems in their products.								flash on and off.	
2	ech i	Apply their understanding of computing to program, monitor and control their products.									
		Know and use t	technical vocabulary relevant	to the project.		⊢					
	5	Generate innov questionnaires	and web-based resources.	esearch using surveys, interv	/iews,					Year 5 Autumn Experience of axles, axle	Year 6 Autumn 2 Science
	Desig	Develop a simple design specification to guide their thinking.								holders and wheels that	become charged.
		Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.								are fixed or free moving	Describe the parts of an electric circuit.
S		Produce detaile	ed lists of tools, equipment and interview of tools and tools and tools and tools and tools and tools and tools	nd materials. Formulate step	p-by-step plans					Basic understanding of	Explain what effects
hicle	lake	Select from and	d use a range of tools and equ	uipment to make products t	hat that are					 electrical circuits, simple switches and 	circuit. Explain how
rs - Vei	≥	accurately assembled and well finished. Work within the constraints of time, resources and cost.								components.	variable resistors can work like a
Gea		Compare the fi	nal product to the original de	esign specification.						Year 5 Autumn	electrical conductors
ys or (luate	Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.								Experience of cutting	and insulators.
ulle	Eva	Consider the views of others to improve their work.								with a range of material	Science
		Investigate fam	Investigate famous manufacturing and engineering companies relevant to the project.							including card, plastic	Explore gravity and
	0	Understand that	at mechanical and electrical s	ystems have an input, proce	ess and an						air resistance.
	nical edge	Output.	w gears and nulleys can be up	sed to speed up, slow down	or change the	┞┼				Year 5 Spring	mechanisms – gears
	Techi Knowl	Understand now gears and pulleys can be used to speed up, slow down or change the direction of movement.								how to strengthen and stiffen structures.	Investigate. mechanisms – levers
	Mech	hanisms	Food	Textiles	Structur	es		٨	Лес	hanical Systems	lectrical Systems