## National Curriculum Requirements

## By the end of KS1:

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].

When designing and making, pupils should be taught to:

Design

- Design purposeful, functional, appealing products for themselves and other users based on design criteria
- Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology

#### Make

- Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

#### Evaluate

- Explore and evaluate a range of existing products
- Evaluate their ideas and products against design criteria

## Technical knowledge

• Build structures, exploring how they can be made stronger, stiffer and more stable

Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products

## By the end of KS2:

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].

When designing and making, pupils should be taught to:

#### Design

- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

#### Make

- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

#### Evaluate

- Investigate and analyse a range of existing products
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- Understand how key events and individuals in design and technology have helped shape the world

#### Technical knowledge

- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- Apply their understanding of computing to program, monitor and control their products.



# <u>Design Technology</u> <u>Manor Park Curriculum design</u>



#### <u>Intent</u>

At Manor Park, design and technology is an inspiring and practical subject. Using creativity and imagination, our pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and other's needs. We aim to inspire our children to be engineers, designers, chefs and architects. By the time they leave Manor Park, children will have the knowledge, skills and understanding to be able to design and make products. Children will know how to complete a variety of practical tasks and work with a range of equipment, tools and resources, and know how to cook and understand the principles of nutrition.

## **Implementation**

We have a bespoke, inspiring design and technology curriculum for our children which is based on the National Curriculum for KS1 and KS2 and Development Matters for EYF5. DT is taught once a term in KS1 and KS2. Each year group will do three DT projects across a year. These projects relate to their topic, to ensure links are made in a cross-curricular way, giving children motivation and meaning for their learning. DT is taught on a DT day and, if needed, a design/research afternoon beforehand so that resources can be sourced. Through our DT days, children are taught the iterative process of designing and making. Children follow the design, make and evaluate cycle when making their products. Our curriculum ensures each year group does a technical, textile and food project across the year, apart from Year 5. In Year 5, there are 3 technical projects so that they can learn the more complex skills and build on and apply their understanding of the skills across the year. Children will create a range of structures, mechanisms, textiles, electrical systems and food products working with a range of media. Skills are taught progressively to ensure that all children are able to learn, practice and build on skills as they move through the school.

## <u>Impact</u>

It is our uncompromising vision that all children reach age related expectations at the end of each year. On going teacher assessment is used to swiftly address gaps, therefore ensuring almost all children securely meet the objectives mapped out in our curriculum.

Year Group	Aut	umn	Spring	Summer
	<ul> <li>KS1 National Curriculum of</li> <li>Design purposeful, funct</li> <li>Generate, develop, mode technology</li> <li>Select from and use a rest of select from and use a rest of the select from and use a r</li></ul>	bjectives covered in each protectional, appealing products for el and communicate their ide range of tools and equipment wide range of materials and c range of existing products d products against design crit bjectives covered in each for les of a healthy and varied diet t	roject r themselves and other users based on design criteria as through talking, drawing, templates, mock-ups and, whe to perform practical tasks [for example, cutting, shaping, components, including construction materials, textiles and teria teria to prepare dishes	ere appropriate, information and communication , joining and finishing] ingredients, according to their characteristics
Year 1	<ul> <li>Understand where for Superhumans</li> <li>Food project- Make a superhero breakfast</li> <li>Design</li> <li>Design a breakfast plate following the simple given design criteria (healthy)</li> <li>Communicate their ideas through talking</li> <li>Draw a simple annotated diagram to show a design</li> <li>Make</li> <li>Use simple utensils (knife, peeler) and equipment to prepare fruit and vegetables with some support e.g., peel, cut, slice, squeeze and chop safely.</li> <li>Select from a range of fruit and vegetables according to their characteristics e.g.,</li> </ul>	<ul> <li><u>Wild Woods</u></li> <li>Technical project- Make a woodland setting with moveable characters on sliders</li> <li>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> <li><u>Design</u> <ul> <li>Look at pictures of woodland animals to help develop ideas             <li>Communicate ideas through talking</li> <li>Draw a simple picture of an intended design with basic labelling following a given design criteria</li> </li></ul> </li> </ul>	Hear me Roar         Technical project- Make a dinosaur on a lever         • Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products         Design         -Look at pictures of dinosaurs to help develop ideas         -Use pictures and words to show an intended design following a simple design criteria         Make         -Use different equipment to join materials together-split pin, glue, cello tape         -Use scissors to cut safely and with some accuracy         -Select from a range of decorations to finish (decorate)         their product         -Select from and use a range of materials and components, lollipop sticks, card, paper         -Create a slider mechanism         Technical Knowledge:         - Understand and explain how a simple lever mechanisms work         -Use a lever mechanism in their woodland setting	Flashback         Textiles project- Create a toy for a child         Design         - Communicate and have own ideas         - Design appealing products for a particular user based on a simple design criteria         Make         - Explain what they are making         - Cut out shapes which have been created by drawing around a template         - Join two pieces of material together using glue         - Use finishing techniques to decorate their puppet-adding eyes, colour, sequins, patterns         Evaluate         - As they work, start to identify strengths and possible changes they might make to improve existing design         - Evaluate product against the simple design criteria

colour, texture and taste to	- Use different equipment	-Explore how a lever mechanism works/has been created	
create a chosen product.	to join materials together-	looking at examples (teacher example)	
	glue, cello tape	-Evaluate their own product and their peers- saying what	
<u>Evaluate</u>	-Use scissors to cut safely	they do and do not like about what they have made and	
-Evaluate their own product-	and with some accuracy	attempt to say why	
saying what they do and do	-Select from a limited range		
not like about what they	of decorations to finish	Previous learning links:	
have made and attempt to	(decorate) their product	• Year 1 (Autumn 2)- Woodland setting- using a slider	
say why	-Select from and use a range	mechanism	
	of materials and components,		
Cooking	lollipop sticks, boxes, card,		
-Understand which foods are	paper		
healthy and unhealthy			
-Understand where truit and	<u>Evaluate</u>		
vegetables come from and	- Explore how a slider		
the difference between	mechanism works/has been		
Them (our door learning)	(teacher exemple)		
	-Evaluate their own product		
	and their peers- saving what		
	they do and do not like about		
	what they have made and		
	attempt to say why		
	-Evaluate whether the right		
	materials were chosen for		
	strength		
	5		
	Technical Knowledge:		
	- Understand and explain		
	how sliders work		
	-Use a slider mechanism in		
	their woodland setting		

	Our City in the Spotlight	Around the World	Conguering Land and Sea
	Technical project- Make a basic car which can be	Food project- Make an English Tea Party and Indian	Textiles project- Create a pirate flag
	pushed using wooden dowels, wheels and axles	Tea party	
	<ul> <li>Build structures, exploring how they can be made</li> </ul>	Design	Design
	stronger, stiffer and more stable	- Work together to design their tea party following a design	- Propose more than 1 idea for their product
	<ul> <li>Explore and use mechanisms [for example, levers,</li> </ul>	criteria	- Create a mock-up of their pirate flag using paper and card-
	sliders, wheels and axles], in their products	-Draw a diagram of an intended design for tea party- add	deciding on colours and patterns
		notes to drawing to help explanations	- Draw a labelled diagram of their design taking into account
	<u>Design</u>		the decisions in the mockup stage and following a design
	-Explain the purpose of their product (finished product can be	Make	criteria
	moved on wheels)	-Prepare two dishes sately, using a range of equipment	
	- Design own functional car using ICT (tinkercad) ensuring it	-Understand the purpose of different tools and which to	<u>Make</u>
	meets the needs for the user and follows a design criteria	select for particular tasks- peeler, knite, colander, sleve,	-Select materials based on their characteristics
	Male	- Measure and weigh ingredients using measuring curs	-ose a bigger needle and thi edd to join materials asing a
	<u>Muke</u> - Understand what components are needed to construct a	-Begin to select from a range of hand tools and equipment	- Use Bianca material
	moving vehicle	-Wash, peel, cut, slice and arate vegetables with increasing	-Cut decorations out of material to the correct shape and
	-Select and use a range of tools- saw, benchhook, scissors.	confidence	size with some accuracy
	ruler	-Use a range of equipment- knife, peeler, grater, chopping	
Year 2	-Select from and use a range of materials -paper, card	board	Evaluate
	- With help, measure and mark wooden dowel to the nearest	-Combine ingredients in an aesthetically pleasing way	-Investigate a range of existing flags
	cm		-Evaluate their own product and their peers, identifying how
	-Cut wooden dowels safely using a saw and bench hook with	Evaluate	it met the design criteria and suggesting any improvements
	some support	-Evaluate the strength of their own and others' dishes,	
	-Make suggestions as to what to do next	including critique of how dishes could be improved	Previous learning links:
	-Join different materials together using glue, cellotape and a	Casking	<ul> <li>Year 1- Summer 1 (flashback)- making a puppet</li> </ul>
	I lse finishing techniques to improve the appearance of their	<u>-Prenare two dishes of nutritional value</u>	
	product by adding simple decorations - feathers buttons	-Explain and understand where food comes from referring to	
	straws	plants and animals (outdoor learning)	
		-Understand the basic principles of a healthy diet	
	<u>Evaluate</u>	-Recognise the need for a variety of foods in a diet	
	-Investigate a range of existing cars- observing cars in the		
	local community (outdoor learning)	Where food comes from (geography lesson-	
	-Evaluate their own product and their peers, identifying how	equator) Understand where food comes from	
	closely it met the design criteria and suggesting any	-Fruit and vegetables grown in the UK and abroad	
	Improvements		

Technical knowledge -Understand how wheels and axles mechanisms work -Attach wheels to a chassis using an axle -Create and use mechanisms (wheels and axles) in their product -Build car structures and look at ways to make it stronger, stiffer and more stable	<ul> <li>Previous learning links:</li> <li>Year 1- Autumn 1 &amp; Spring (Superhumans &amp; Hear me roar)- where food comes from, healthy and unhealthy foods</li> </ul>	
<ul> <li>Previous learning links:</li> <li>Year 1- Autumn 2 (Wild Woods)- Mechanisms- slider</li> <li>Year 1- Spring (Hear Me Roar)- Mechanisms- lever</li> </ul>		

	KS2 National Curriculum objectives covered in each project				
	<ul> <li>Use research and develop design criteria to inform the design</li> <li>Generate, develop, model and communicate their ideas through design</li> <li>Select from and use a wider range of tools and equipment</li> <li>Select from and use a wider range of materials and compose</li> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design</li> </ul>	sign of innovative, functional, appealing products that are fit for bugh discussion, annotated sketches, cross-sectional and explode to perform practical tasks [for example, cutting, shaping, joining nents, including construction materials, textiles and ingredients, criteria and consider the views of others to improve their work	purpose, aimed at particular individuals or groups ed diagrams, prototypes, pattern pieces and computer-aided and finishing], accurately according to their functional properties and aesthetic qualities		
	Meet the Greeks	Food Glorious Food	Across the Ages		
	Textiles project- Make an Ancient Greek sash	Food project- Design and make a chocolate bar	Technical project- Create a shelter		
	<u>Design</u>	(including the packaging)	Apply their understanding of how to strengthen,		
	<ul> <li>Research ancient Greek sashes</li> </ul>		stiffen and reinforce more complex structures		
Year 3	<ul> <li>Make some suggestions for the design criteria- following research</li> <li>Use an annotated sketch to show an intended design</li> <li>Make <ul> <li>Use a range of tools and equipment- scissors, needle, thread</li> <li>Select materials considering functional and aesthetic qualities</li> <li>Explain why they have chosen a particular material</li> <li>Create a paper pattern as a template for their design</li> <li>Attach pattern to material and cut with accuracy</li> <li>Use a regular sewing needle to sew a running stitch to join material and create sash</li> </ul> </li> <li>Evaluate <ul> <li>Investigate and analyse a range of existing sashes</li> <li>Use design criteria to evaluate their finished product</li> <li>Suggest a change to make their design better</li> </ul> </li> </ul>	<ul> <li>Design <ul> <li>Research existing chocolate bars and their packaging</li> <li>Use their knowledge of a broad range of existing products to help generate ideas</li> <li>Design an appealing chocolate bar packaging to meet a design criteria</li> <li>Use an annotated sketch to create the net shape of the packing and the design on the bar</li> </ul> </li> <li>Make For the chocolate <ul> <li>Select and use appropriate equipment to prepare and combine ingredients-chocolate moulds, spoon, mixing bowl</li> <li>Measure and weigh out ingredients using weighing scales</li> </ul> For the packaging <ul> <li>Use a range of tools safely- scissors, ruler, craft knife, cutting mat, safety ruler</li> <li>Measure to the nearest cm and mark out the net of their 3D shape</li> </ul></li></ul>	<ul> <li>Design <ul> <li>Research prehistoric shelters</li> <li>Use research to inform the design criteria for a shelter suitable to the context of an era</li> <li>Make some suggestions for the design criteria</li> <li>Design a functional shelter</li> <li>Use a cross sectional diagram to show an intended design including labelling</li> </ul> </li> <li>Make <ul> <li>With growing independence, measure and mark wooden dowel to the nearest cm</li> <li>Cut wooden dowel using a saw and bench hook increasingly independently (5 pieces)</li> <li>Create a frame structure using diagonal struts to strengthen (A frame)</li> <li>Join base to A frame using a hot glue gun with some support</li> </ul> </li> </ul>		
	<u>Previous learning links:</u> - Year 2 (Summer- Conquering Land and Sea)- Pirate flag using running stitch <u>Topic enhancement:</u>	<ul> <li>Cut, shape and score cardboard with some accuracy</li> <li>Construct a strong shell structure out of cardboard</li> <li>Assemble their 3D shape using glue</li> <li>Use ICT to create a digital graphic design to go on packaging</li> </ul>	<u>Evaluate</u> -Investigate the construction of existing structures -Use design criteria to evaluate their product -Begin to ask questions- is it strong? Is it stable? Does it match the original design?		

	<u>Evaluate</u> - Tryestigate and research a range of existing chocolate	<u>Technical Knowledge:</u> -Understand how to make structures more stable
	packaging and bars -Evaluate their work against the design criteria	Previous learning links:
	-Evaluate a peer's work	<ul> <li>Year 2- (Autumn 1-Our City in the Spotlight)- making a car- sawing wooden dowels, using a hot glue gun.</li> </ul>
	Make pizza/frittata -Prepare and cook a variety of predominantly savory dishes using	
	-Understand and apply the principles of a healthy and varied diet -Describe what a balanced diet is	
	-Look at the nutritional value of a recipe -Use different techniques- peel, mix, measure, grate.	
	Topic enhancement:	
	- Cadbury world trip	

	Chariots of Fire	Waves	Invaders
	Food project- Make a traditional Roman meal	Technical project- Make a lighthouse with a working	Textiles project- Make a Viking bag
	(bread and salad)	light fitting	
Year 4	<ul> <li><u>Chariots of Fire</u></li> <li>Food project- Make a traditional Roman meal (bread and salad)</li> <li>Understand and apply the principles of a healthy and varied diet</li> <li>prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed. (outdoor learning)</li> <li><u>Design</u></li> <li>Research what they ate in the Roman times</li> <li>Use research to inform design decisions and create a design criteria</li> <li>Plan their own bread with annotated design</li> <li>Think about presenting product in an interesting way</li> </ul>	Waves         Technical project- Make a lighthouse with a working light fitting         • Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]         Design         • Research what lighthouses are and what they are used for         • Use research to inform designs         • Draw an exploded diagram to show the intended design including the series circuit         Make         • Select and use a range of different materials and components (bottles, card, paper, junk modelling materials) according to their functional and aesthetic properties         • Use electrical components to create a series circuit	Invaders         Textiles project- Make a Viking bag         Design         Use research to inform design criteria         Consider functionality and aesthetic properties when designing         Create an annotated sketch with labels of their design         Make         Measure and mark out fabric to the nearest cm and millimetre         Use a simple pattern to create a bag         Cut fabric with some degree of accuracy         Use a range of tools and equipment- needle, thread         Use a running and back stitch accurately to join two pieces of material         Understand the importance of a seam allowance
	<ul> <li>Start to independently follow a recipe</li> <li>Measure and weigh out ingredients to the nearest gram and millilitre</li> <li>Combine ingredients</li> <li>Use a range of cooking techniques- kneading, mixing, baking</li> <li>Shape bread into a decorative pattern and bake</li> <li>With support, use a heat source to cook ingredients</li> <li>Salad</li> <li>Use a range of tools and equipment- sieve, colander, knife, peeler, chopping board to prepare ingredients</li> <li>Evaluate</li> <li>Evaluate final product- referring back to the design criteria</li> <li>Evaluate considering whether they contribute to a balanced diet</li> </ul>	<ul> <li>cellotape</li> <li>Assemble and join materials with some degree of accuracy</li> <li>Evaluate</li> <li>Investigate an existing series circuit to identify how it has been put together</li> <li>Evaluate the final product, identifying what went well and what could be better</li> <li>Test the product- does the series circuit work?</li> <li>Technical knowledge</li> <li>Understand how a series circuit works</li> <li>Use a series circuit in their product including switches and bulbs</li> </ul>	<ul> <li>Evaluate their product as their work progresses, refining techniques if needed</li> <li>Evaluate final product, is it fit for purpose?</li> <li>Test product out- Is it strong enough to carry items? Is it the right size? Is the strap a good length?</li> <li>Previous learning links: <ul> <li>Year 2 (Summer)- Running stitch (fabric with holes and bigger needle)</li> <li>Year 3 (Autumn)- Running stitch independently</li> </ul> </li> </ul>

<ul> <li>Understand and explain some processes that food goes</li> </ul>	
through to preserve them or make them more appealing	
in ough to preserve ment of make ment nore appearing	
(Pickling, salting, drying, smoking)	
Previous learning links	
Trevious learning links.	
- Year 1 (Spring)- Making fruit kebab	
Very 2 (Envire) Melsing the tag nexts	
- year 2 (Spring)- Making the tea party	
- Year 3 (Spring)- Making chocolate	

<ul> <li>Understand how a lever mechanism works</li> <li>Explain how mechanical systems (lever) create</li> </ul>		Technical knowledge
movement		<ul> <li>Understand how CAMS mechanisms work and the</li> </ul>
<ul> <li>Use a lever mechanism in their product</li> </ul>		different components (CAM and follower)
- Reinforce the structure using additional strengthening		<ul> <li>Look at existing CAM toys (videos)</li> </ul>
dowels		- Understand the different movements- rotary or linear
		- Know that different CAM shapes produce different
Province Looming Links		movements
Previous learning links:		<ul> <li>Explain how mechanical systems (CAMS) create</li> </ul>
- Year 2- (Autumn)- Making a car		movement
- Year 3- (Summer)- Making a shelter		
- Year 4- (Autumn)- Making an Egyptian shadut		Carnival day
		Understand seasonality and know where and how a variety of
		ingredients are grown, reared, caught and processed.
		- Discuss reasons why fruit and vegetables grow very well in
		places like Brazil and may not grow so well in England.
		- Identify where the different fruits and vegetables have
		been grown (specific for South America)
		- Research fruits and why they grow so well in certain places.
		Previous learning links:
		- Year 1 (Autumn 2)- Slider mechanism
		- Year 2 (Autumn)- Making a car-mechanisms
		- Year 4 (Autumn)- Lever mechanism
	•	

	Rising from the Rubble	Frozen	Benin
Year 6	Rising from the Rubble         Technical project- Make an Anderson shelter with working light fitting.         Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]         Apply their understanding of how to strengthen, stiffen and reinforce more complex structures         Design         - Research Anderson shelters         - Use research to inform the design criteria for a shelter suitable to the context of an era         - Design with the user in mind, motivated by the service a product will offer         - Draw a cross-sectional diagram to show the inside and outside of their shelter         Make         - Select the most appropriate material for structures, explaining what makes them strong         - Independently, measure and mark wooden dowel to the nearest mm (different length dowels- 12 pieces)         - Use a saw and bench hook to saw wooden dowels with precision and refine the finish with appropriate tools (such as sanding wood)         - Use a hot glue gun to attach dowels to the base         - Measure and mark corrugated card to the correct measurements	Erozen         Technical project- Make a snowmobile with control pad         Apply their understanding of computing to program, monitor and control their products.         Design         - Research snowmobiles         - Use an exploded diagram to design a snowmobile labelling the different components- crumble board, wheels, axle.         Make         - Independently, measure and mark wooden dowel to the nearest mm with accuracy         - Attach wood together to create the frame using a hot glue gun         - Create wheel and axles (2 axles and 4 wheels)         - Attach to frame         - Attach crumble board to snowmobile         Technical knowledge         - Use computing a crumble board and programming         - Use computing knowledge to program/control their vehicle	Benin         Textiles project- Benin Applique         Design         - Use research to inform a design criteria         - Consider the aesthetic qualities of the design when planning         - Draw an annotated labelled sketch of intended design         - Produce prototypes to show my ideas including material and colour choices         Make         - Create a paper pattern for their patch         - Measure and mark out fabric to the nearest cm and millimetre         - Independently, cut out fabric pieces with accuracy needed for design         - Use a sewing needle to independently sew a whip stitch to accurately join fabric pieces onto fabric         Evaluate         - Evaluate finished product against the design criteria. Is it colourful? Is it bright?         Previous learning links:         - Year 2 (Summer)- Running stitch (fabric with holes and bigger needle)         - Year 3 (Autumn)- Running stitch independently         - Year 4 (Summer)
	<ul> <li>precision and refine the finish with appropriate tools (such as sanding wood)</li> <li>Use a hot glue gun to attach dowels to the base</li> <li>Measure and mark corrugated card to the correct measurements</li> <li>Cut corrugated card with precision and accuracy</li> <li>Cover shelter with corrugated card</li> <li>Finish product by painting silver to ensure it has a high-quality finish</li> </ul>	<ul> <li>vehicle</li> <li>Evaluate</li> <li>Critically evaluate the quality of design and fitness for purpose of products as they design and make</li> <li>Evaluate finished products against the original design criteria</li> </ul>	bigger needle) - Year 3 (Autumn)- Running stitch independently - Year 4 (Summer)
	<ul> <li>Evaluate</li> <li>Evaluate shelter- is it sturdy, strong? How good would it be at protecting people?</li> <li>Evaluate light fitting, does it work? Referring back to the original design criteria</li> </ul>	<u>Previous learning links:</u> - Year 2 (Autumn)- Making a car	

<ul> <li>Technical Knowledge:</li> <li>Practice making a light fitting circuit</li> <li>Understand and demonstrate that electrical systems have an input, process and output</li> <li>Use a series circuit in their product</li> <li>Learn about lightbulb inventor- Thomas Edison</li> <li>Understand how to make structures stronger and apply this in their work</li> </ul>	
Previous learning links:	
- Year 3 (Summer)- Building a shelter	
<ul> <li>Year 5 (Autumn)- Building a strong shaduf</li> </ul>	
- Year 4 (Spring)- Lighthouse with working light fitting	