



DT CYCLE A

AUTUMN

SPRING

SUMMER

EYFS

Design: to describe something they want to make/build/construct; to say who they are making/building/constructing for; to talk about what materials they are going to use when making/building/constructing.
Make: to make/build/construct objects using a variety of materials; to join materials together when making/building/constructing.
Evaluate: to talk about their constructions/products and what they are pleased with; to talk about their constructions and say how it could be even better; to talk about everyday objects that they like and say why they are good.
Structures: to build/construct structures from a range of materials to a design brief that they have created or been given; to build/construct structures that are tall or strong; to know that tape and glue can join materials together and can make structures stronger.
Food: to recognise different foods as either healthy or unhealthy; to know how to use basic cutlery and utensils to make and eat food; to follow simple instructions to make different foods; to know when we make food for other people that it needs to be appealing.

- Can you sew a stocking?
- Can you decorate the Christmas tree in the role play area?
- Can you create a gift tag for a present?
- Can you make a Christmas card for your family?

- Can you create a card for someone special to you? (Mother's Day)
- Can you design and create a rocket?
- Can you make an Easter card that moves?
- Can you make a Chinese puppet dragon?
- Can you make paper lanterns?
- Can you design and build a home for a hibernating animal?

- Can you design a scarecrow to protect our plants?
- Can you build and construct during continuous provision?
- Can you create and perform your own play using the puppets?
- Can you design and make a card for Father's Day?

YEAR
1/2

BRING ON BREAKFAST
COOKING AND NUTRITION

BIG QUESTION: How can we make breakfast safely and hygienically?

VEHICLES
MECHANISMS

BIG QUESTION: How can you make a vehicle move?

WINDMILLS
STRUCTURES

BIG QUESTION: How can you make the sails go round?

PRIOR LEARNING: Y1/2 Cycle B – Prepare to party
 NEXT STEPS: Y3/4 – Be a Baker
 Y3/4 – Lovely Lunch

PRIOR LEARNING: EYFS junk models of boats and transport; building rockets; exploring sinking and floating linked to boat building; using construction toys and equipment to create a model

PRIOR LEARNING: EYFS junk modelling; build models for construction; designing homes for animals; adhesive techniques for joining materials; lighthouse design

		NEXT STEPS: Y1/2 Cycle B – Moving Mini-beasts Y3/4 Slingshot cars	NEXT STEPS: Y3/4 Mini Greenhouses
	VOCABULARY: breakfast, fruit, banana, apple, strawberry, blueberry, yoghurt, milk, dairy cow, 4 a day, sweet, sour, crunchy, soft, bridge hold, peel, cut, mash, spoon, arrange, taste, healthy	VOCABULARY: axle, axle holder, diagram, wheel, mechanism, chassis, dowel	VOCABULARY: axle, bridge, design, design criteria, model, net, packaging, structure, template, strong, weak, stable, unstable
	ENQUIRY QUESTIONS: <ol style="list-style-type: none"> 1. What different food and drink do we eat at breakfast? (plant/ animal origin) 2. What makes a healthy breakfast? (5 A day – tasting opp) 3. What skills do you need to make a fruit kebab? (fork secure, bridge hold, peel) 4. Where do some breakfast foods come from? (focus on milk from dairy cows) 5. Which yoghurt tastes best? (Design fruit and yoghurt pot based on preferences) 6. Can you follow your design and make your breakfast pot? (peel, mash, juice, cut, spoon, arrange) Taste and evaluate 	ENQUIRY QUESTIONS: <ol style="list-style-type: none"> 1. Can we investigate a variety of vehicles and their uses? 2. What are wheels, axles and chassis? 3. What different ways could we create and decorate the body of our vehicle? 4. What will the body of your vehicle look like? 5. Can you make a vehicle based on your design? 6. What worked well with your vehicle and how could you improve? 	ENQUIRY QUESTIONS: <ol style="list-style-type: none"> 1. What are windmills and how they are used? 2. How can you make a strong base? 3. How can you make sails? 4. What features will you include in your own windmill? 5. Can you follow a plan to make a windmill? 6. How is your finished windmill?
YEAR 3/4	BE A BAKER COOKING AND NUTRITION BIG QUESTION: How can bread contribute to a healthy and varied diet?	SLINGSHOT CARS MECHANICS BIG QUESTION: How can you make a model car travel with speed?	CUSHIONS TEXTILES BIG QUESTION: How can you make a decorative cushion?

	<p>PRIOR LEARNING: Y1/2 Bring on Breakfast Y1/2 Prepare to Party</p> <p>NEXT STEPS: Y3/4 Lovely Lunch Y5/6 Cycle A – Serve a Salad Y5/6 Cycle B – Grab and Go</p>	<p>PRIOR LEARNING: Y1/2 Vehicle Y1/2 Moving Mini-beasts</p> <p>NEXT STEPS: Y5/6 Automata Toys</p>	<p>PRIOR LEARNING: Y1/2 Puppets</p> <p>NEXT STEPS: Y5/6 Stuffed Toys</p>
	<p>VOCABULARY: bread, dough, origin, knead, shape, ingredients, prepare, safely, hygienically, flour, wheat, ground, yeast, rise, prove, attractive, dense, light, fluffy, salty, sweet</p>	<p>VOCABULARY: chassis, kinetic, air resistance, research, energy, mechanism, design, structure, model, graphics, template</p>	<p>VOCABULARY: applique, design, fabric, thread, texture, cross-stitch, equipment, patch, seam, knot, running stitch, template</p>
	<p>ENQUIRY QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you name and describe a selection of different breads? (and origins) 2. What skills do we need to make a bread roll? (kneading and shaping) 3. How is bread made and where do the ingredients come from? 4. How can we arrange ingredients to make an attractive pizza? 5. Can you design bread based on your own criteria? 6. Can you apply food preparation skills and make your bread? 	<p>ENQUIRY QUESTIONS:</p> <ol style="list-style-type: none"> 1. How have car designs developed over the years? 2. How would you build a chassis? 3. Can you design a shape that would reduce air resistance? 4. Can you make a model from nets? 5. How could you assemble the body to the chassis correctly? 6. How would you evaluate the speed of your design? 	<p>ENQUIRY QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can we research shapes and styles of cushions? 2. What is cross-stitch and applique? 3. Can you design a cushion? 4. Can you create a template from paper? 5. Can you use applique and cross-stitch to decorate your cushion? 6. Can you use a running stitch to join fabrics and assemble your cushion?
<p>YEAR 5/6</p>	<p>STUFFED TOYS TEXTILES</p> <p>BIG QUESTION: Can you create a stuffed toy for a member of your family?</p>	<p>BRIDGES STRUCTURES</p> <p>BIG QUESTION: How do bridges support cars?</p>	<p>SERVE A SALAD COOKING AND NUTRITION</p> <p>BIG QUESTION: Can you create a healthy salad specifically for someone special?</p>

	<p>PRIOR LEARNING: Y3/4 - cushions</p> <p>NEXT STEPS: Y7 - Textiles</p>	<p>PRIOR LEARNING: Y3/4 Mini-greenhouses</p> <p>NEXT STEPS: Y7 - Woodwork</p>	<p>PRIOR LEARNING: Y3/4 Be a Baker Y3/4 Lovely Lunch</p> <p>NEXT STEPS: Y7 – Food Technology</p>
	<p>VOCABULARY: design, template, model, stuffed toy, fabric, running stitch, cross stitch, applique, blanket stitch, join, knot, decorate</p>	<p>VOCABULARY: bridges, beams, pillars, piers, beam bridges, trusses, compression forces, stiffen, strengthen, design criteria, evaluate, redirect, strong, tension, model, suspension, design brief</p>	<p>VOCABULARY: ingredients, salad, pasta, potato, egg, safely, hygienically, prepare, origins, fibre, eat well guide, food groups, fruit, vegetable, carbohydrates, preference, recipient, design criteria, sketch, evaluate, claw, bridge, grate.</p>
	<p>ENQUIRY QUESTIONS:</p> <ol style="list-style-type: none"> 1. Can you research potential designs for a xmas-themed stuffed toys to sell at the xmas fair? 2. Can you produce several potential designs? 3. Can you make a paper template for your design? 4. Can you write a sequence of steps to follow to make your stuffed toy? 5. Can you assemble your toy? 6. Can you evaluate your stuffed toy? 	<p>ENQUIRY QUESTIONS:</p> <ol style="list-style-type: none"> 1. How are pillars and beams used to span gaps? 2. How can trusses and arches be used to strengthen bridges? 3. How are suspension bridges able to span long distances? 4. Can you research and design your own bridge? 5. Can you build your bridge? 6. Can you evaluate your bridge according to your criteria? 	<p>ENQUIRY QUESTIONS:</p> <ol style="list-style-type: none"> 1. What ingredients can you find in a salad and which food groups do they come from? (research) 2. What is the role of fibre in our diet? 3. Can you prepare a salad bar safely and hygienically? (bridge hold, claw grip, gating) 4. What preferences would the recipient of your salad enjoy? (tasting opp – questionnaire) 5. Can you use a design criteria to design your salad through sketches and notes? 6. Can you make and evaluate your design salad safely and hygienically?