

## Design Technology Scheme of Work Year 1/2

Design	Make	Evaluate	Technical knowledge	Cooking and nutrition
Design purposeful, functional, appealing	Select from and use a range of tools	Explore and evaluate a	Build structures, exploring how they	Use the basic principles of a
products for themselves and other users based	and equipment to perform practical	range of existing products.	can be made stronger, stiffer and	healthy and varied diet.
on design criteria.	tasks.		more stable	
		Evaluate their ideas and		Understand where food comes
Generate, develop, model and communicate	Select from and use a wide range of	products against design	Explore and use mechanisms in	from.
their ideas through talking, drawing, templates,	materials and components, including	criteria.	their products eg wheels and axles,	
mock-ups and where appropriate, information	construction materials, textiles and		levers, sliders.	
and communication technology.	ingredients.			

	Autumn		Spring			Summer
Cycle A	Sheet materials Design and make Link to topic and science work on materials Roll paper to create tubes, curl paper, create hinges, make simple pop ups Use a hole punch Insert paper fasteners for card linkages Sewing Design and evaluate Link to Art Experience using several different kinds of simple stitch	stmas card – sewing, hinge,	Cooking and nutrition Design, make, evaluate Link to maths with measure Link to PSHE/science - keeping healthy Follow safe procedures for food safety and hygiene. Savoury recipe Cut, peel, grate, chop	er/Mother's day card –		Construction Evaluate and technical knowledge Link to topic – vehicle? Cut strip wood/dowel using a hacksaw and bench hook Observe a glue gun being used and use it on a 1:1 adult : child ratio
Cycle B	Sheet materials Evaluate and technical knowledge Link to topic and science work on materials Investigate strengthening sheet materials Investigate joinings – temporary, fixed and moving Sewing Design and evaluate Link to Art Experience using several different kinds of simple stitch – running and cross stitch	Use DT skill when making Christm slider etc	Construction Design and make Link to topic Use a range of materials to create models wit wheels and axles eg tubes, dowel, cotton reel Attach wheels to a chassis using an axle Cut strip wood/dowel using a hacksaw and bench hook Observe a glue gun being used and use it on a 1:1 adult: child ratio	S DT skill when	ing, lever, slider etc	Cooking and nutrition Design, make, evaluate Link to maths with measure Link to PSHE/science - keeping healthy Follow safe procedures for food safety and hygiene. Sweet recipe Cut, peel, grate, chop

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Design Technology Scheme of Work Year 3/4

Design	Make	Evaluate	Technical knowledge	Cooking and nutrition
Use research and develop design criteria to	Select from and use a wider	Investigate and analyse a range of existing	Apply their understanding of how to strengthen, stiffen	Understand and apply the basic
inform the innovative, functional, appealing	range of tools and equipment to	products	and reinforce more complex structures	principles of a healthy and varied diet
products that are fit for purpose, aimed at	perform practical tasks			
particular groups or individuals	accurately	Evaluate their ideas and products against their	Understand and use mechanical systems in their products	Prepare and cook a variety of
		own design criteria and consider the views of	eg gears, levers, pulleys, cams, levers and linkages	predominantly savoury dishes using a
Generate, develop, model and communicate	Select from and use a wider	others to improve their work		range of cooking techniques
their ideas through discussion, annotated	range of materials, textiles and		Understand and use electrical systems in their products	
sketches, cross-sectional and exploded	ingredients, according to their	Understand how key events and individuals in	eg switches, buzzers, bulbs and motors	Understand seasonality, and know
diagrams, prototypes, pattern pieces and	functional properties and	design technology have helped shape the world		where and how a variety of ingredients
computer aided design	aesthetic qualities		Apply their undertstanding of computing to program,	are grown, reared, caught and
			monitor and control their products	processed

	Autumn		Spring		Summer
Cycle A	Sheet materials Design and make Link to topic – levers Cut slots and internal shapes Use lolly sticks/card to make levers and linkages Use linkages to make movement larger or more varied Use a glue gun with close supervision Cooking and nutrition Design, make, evaluate Link to maths with measure Link to Literacy/PSHE/science - keeping healthy & teeth Follow safe procedures for food safety and hygiene. Savoury recipe Measure and weigh ingredients appropriately	nas card – sewing, hinge, slider etc	Construction Evaluate and technical knowledge Link to topic Look at models with circuits including bulbs and buzzers Sewing Design and evaluate Link to Art Experience some appliqué work Expand the range of stitches that can be used Sew buttons, sequins onto work	Mother's day card – sewing, lever,	Cooking and nutrition Design, make, evaluate Link to maths with measure Link to Literacy/PSHE/science - keeping healthy & teeth Follow safe procedures for food safety and hygiene. Savoury recipe Measure and weigh ingredients appropriately
Cycle B	Construction Design and make Link to topic – Tudor houses? Create shell or frame structures, strengthen frames with diagonal struts Make structures more stable by giving them a wide base Use a glue gun with close supervision Measure and mark square selection, strip and dowel accurately to 1cm	Use DT skill when making Christma	Cooking and nutrition Design, make, evaluate Link to maths with measure Link to PSHE/science - keeping healthy Follow safe procedures for food safety and hygiene. Savoury recipe Measure and weigh ingredients appropriately	Use DT skill when making Easter/Mother' slider etc	Sheet materials Evaluate and technical knowledge Link to topic – diorama? Use and explore complex pop ups Explore and create nets Sewing Design and evaluate Link to Art Experience some appliqué work Expand the range of stitches that can be used Sew buttons, sequins onto work



## Design Technology Scheme of Work Year 5/6

Design	Make	Evaluate	Technical knowledge	Cooking and nutrition
Use research and develop design criteria to	Select from and use a wider	Investigate and analyse a range of existing	Apply their understanding of how to strengthen, stiffen	Understand and apply the basic
inform the innovative, functional, appealing	range of tools and equipment to	products	and reinforce more complex structures	principles of a healthy and varied diet
products that are fit for purpose, aimed at	perform practical tasks			
particular groups or individuals	accurately	Evaluate their ideas and products against their	Understand and use mechanical systems in their products	Prepare and cook a variety of
		own design criteria and consider the views of	eg gears, levers, pulleys, cams, levers and linkages	predominantly savoury dishes using a
Generate, develop, model and communicate	Select from and use a wider	others to improve their work		range of cooking techniques
their ideas through discussion, annotated	range of materials, textiles and		Understand and use electrical systems in their products	
sketches, cross-sectional and exploded	ingredients, according to their	Understand how key events and individuals in	eg switches, buzzers, bulbs and motors	Understand seasonality, and know
diagrams, prototypes, pattern pieces and	functional properties and	design technology have helped shape the world		where and how a variety of ingredients
computer aided design	aesthetic qualities		Apply their undertstanding of computing to program,	are grown, reared, caught and
			monitor and control their products	processed

	Autumn		Spring		Summer
Cycle A	Sheet materials Design, make, technical knowledge Link to topic & science – interactive poster? Use electrical systems in their products such as a motor and a switch Cut slots	ard etc – sewing, hinge, slider	Cooking and nutrition Design, make, evaluate Link to maths with measure Link to PSHE/science/history - keeping healthy Follow safe procedures for food safety and hygiene. Savoury recipe/marble cake Cut and shape ingredients using the appropriate tools Join and combine ingredients appropriately eh beating, rubbing in etc Sewing Design and evaluate Link to Art/History Experience simple patchwork Be able to use a range of stitches to achieve different effects	card – sewing, lever, slider etc	Construction Evaluate and technical knowledge Link to topic Control a model using an ICT control program -control Lego
Cycle B	Sheet materials Evaluate and technical knowledge Link to topic – bridges/architecture Cut accurately and safely to a marked line Combine materials with temporary, fixed or moving joinings Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate Choose an appropriate sheet material for a purpose	Use DT skill when making Christmas α	Cooking and nutrition Design, make, evaluate Link to maths with measure Link to PSHE/science - keeping healthy Follow safe procedures for food safety and hygiene. Savoury recipe Cut -and shape ingredients using the appropriate tools  Join and combine ingredients appropriately eh beating, rubbing in etc	Use DT skill when making Easter/MoD	Construction Design and make Link to topic Use a hand drill to drill tight and loose fit holes Cut wood, dowel, square section wood accurately to 1mm Use a glue gun with close supervision Use a cam to make an up and down mechanism Build frameworks using a range of materials Sewing Design and evaluate Link to Art — soft/hard toy? Experience simple patchwork Be able to use a range of stitches to achieve different effects

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