Teaching Sequence for DT

		Year 1 DT	
Topic or Activity	Term 1 Knowledge Based Learning Objectives	Term 2 Knowledge Based Learning Objectives	Term 3 Knowledge Based Learning Objectives
Textiles - Stitches	I have my own ideas I can use pictures and words to plan, begin to use models I can design a product for myself following design criteria I can explain what I'm making and why I can select tools/equipment to cut, shape, join, finish and explain choices I can measure, mark out, cut and shape, with support I can choose suitable materials and explain choices I can try to use finishing techniques to make product look good I can talk about my work, linking it to what I was asked to do I can talk about existing products considering: use, materials, how they work, audience, where they might be used I can begin to talk about what could make product better I can measure, cut and join textiles to make a product, with some support I can choose suitable textiles	I can talk about my work, linking it to what I was asked to do I can talk about existing products considering: use, materials, how they work, audience, where they might be used I can talk about existing products, and say what is and isn't good I can talk about things that other people have made I can begin to talk about what could make product better	
Mechanisms – Sliders and levers		I have my own ideas I can explain what I want to do I can explain what my product is for, and how it will work I can use pictures and words to plan, begin to use models I can design a product for myself following design criteria I can research similar existing products I can explain what I'm making and why I can consider what I need to do next I can select tools/equipment to cut, shape, join, finish and explain choices I can choose suitable materials and explain choices I can try to use finishing techniques to make product look good I can talk about my work, linking it to what I was asked to do I can talk about existing products considering: use, materials, how they work, audience, where they might be used I can talk about existing products, and say what is and isn't good I can talk about things that other people have made I can begin to talk about what could make product better I am beginning to use levers or slides	
Cooking & Nutrition – Healthy packed lunch		Tam beginning to use levers of slides	I am beginning to understand that all food comes from plants or animals. I can explore the understanding that food has to be farmed, grown elsewhere (e.g. home) or caught. I am starting to understand how to name and sort foods into the five groups in 'The Eat well plate' I am beginning to understand that everyone should eat at least five

Evaluate Technical Knowledge Design Make

Teaching Sequence for DT

	portions of fruit and vegetables every
	day.
	I know how to prepare simple dishes
	safely and hygienically, without using a
	heat source.
	I know how to use techniques such as
	cutting, peeling and grating.

Teaching Sequence for DT

Year 2 DT

Topic or Activity	Term 1 Knowledge Based Learning Objectives	Term 2 Knowledge Based Learning Objectives	Term 3 Knowledge Based Learning Objectives
Structures – Freestanding structures	 I can have my own ideas and plan what to do next. I can explain what I want to do and describe how I may do it. I can describe design using pictures, words, models, diagrams, begin to use ICT. I can explain what I am making and why it fits the purpose. I can make suggestions as to what I need to do next. I can choose best tools and materials, and explain choices. I can describe what went well, thinking about design criteria I can talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion I can evaluate how good existing products are I can talk about what I would do differently if I were to do it again and why I can measure materials. I can describe some different characteristics of materials. I can join materials in different ways. I can use joining, rolling or folding to make it stronger. I can use own ideas to try to make 		
Mechanisms – Wheels and axels	product stronger.	 I can have my own ideas and plan what to do next I can explain what I want to do and describe how I may do it I can explain purpose of product, how it will work and how it will be suitable for the user I can describe design using pictures, words, models, diagrams, begin to use ICT I can design products for myself and others following design criteria I can choose best tools and materials, and explain choices. I can use knowledge of existing products to produce ideas. I can explain what I am making and why it fits the purpose. I can make suggestions as to what I need to do next. I can join materials / components together in different ways. I can describe which tools I'm using and why I can choose suitable materials and explain choices depending on characteristics. I can describe what went well, thinking about design criteria I can talk about existing products considering: use, materials, how they 	

Teaching Sequence for DT

	work, audience, where they might be used; express personal opinion I can evaluate how good existing products are I can talk about what I would do differently if I were to do it again and why I can use levers or sliders I am beginning to understand how to use wheels and axles.	
Cooking & Nutrition – Design a salad		 I understand that all food comes from plants or animals. I know that food has to be farmed, grown elsewhere (e.g. home) or caught. I understand how to name and sort foods into the five groups in 'The Eat well plate' I know that everyone should eat at least five portions of fruit and vegetables every day. I can demonstrate how to prepare simple dishes safely and hygienically, without using a heat source. I can demonstrate how to use techniques such as cutting, peeling and grating.

Teaching Sequence for DT

Year 3 DT

Topic or	Term 1 Knowledge Based Learning	Term 2 Knowledge Based Learning	Term 3 Knowledge Based Learning
Structures	Term 1 Knowledge Based Learning Objectives I can begin to research others' needs I can show design meets a range of requirements I can describe purpose of product I can follow a given design criteria I have at least one idea about how to create product I can describe design using an accurately labelled sketch and words I can make design decisions begin to use computers to show design I can select suitable tools/equipment, explain choices; begin to use them accurately I can select appropriate materials, fit for purpose. I can work through plan in order I can consider how good product will be I can begin to measure, mark out, cut and shape materials/components with some accuracy I can begin to assemble, join and combine materials and components with some accuracy I can begin to apply a range of finishing techniques with some accuracy I can look at design criteria while designing and making I can use design criteria to evaluate finished product I can say what I would change to make design better I can begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose I can begin to understand by whom, when and where products were designed I can learn about some inventors/designers/ engineers/chefs/ manufacturers of ground-breaking products I can use appropriate materials	Term 2 Knowledge Based Learning Objectives	Term 3 Knowledge Based Learning Objectives
	 I can work accurately to make cuts and holes I can join materials I can begin to make strong structures 		
Mechanisms		 I can begin to research others' needs I can follow a given design criteria I have at least one idea about how to create product I can describe design using an accurately labelled sketch and words I can make design decisions I can explain how product will work I can make a prototype I can begin to use computers to show design I can select suitable tools/equipment, explain choices; begin to use them accurately 	

Teaching Sequence for DT

	• I can select appropriate materials, fit for	
	purpose.	
	• I can work through plan in order	
	• I can consider how good product will be	
	● I can begin to assemble, join and	
	combine materials and components	
	with some accuracy	
	• I can begin to apply a range of finishing	
	techniques with some accuracy	
	• I can look at design criteria while	
	designing and making	
	• I can use design criteria to evaluate	
	finished product	
	• I can say what I would change to make	
	design better	
	• I can begin to evaluate existing	
	products, considering: how well they	
	have been made, materials, whether	
	they work, how they have been made,	
	fit for purpose	
	• I can begin to understand by whom,	
	when and where products were designed	
	• I can learn about some	
	inventors/designers/ engineers/chefs/	
	manufacturers of ground-breaking	
	products	
	• I can select appropriate tools /	
	techniques	
	• I can alter product after checking, to	
	make it better	
	• I can begin to try new/different ideas	
	• I can use simple lever and linkages to	
	create movement	
		• I am starting to know that food is grown
		(such as tomatoes, wheat and potatoes),
		reared (such as pigs, chickens and cattle)
		and caught (such as fish) in the UK,
		Europe and the wider world.
		• I understand how to prepare and cook a
		variety of predominantly savoury dishes
		safely and hygienically including, where
Cooking 9		appropriate, the use of a heat source.
Cooking & Nutrition		• I am beginning to understand how to
Nutrition		use a range of techniques such as
		peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.
		I am starting to understand that a
		healthy diet is made up from a variety
		and balance of different food and drink,
		as depicted in 'The Eat well plate'
		• I am beginning to know that to be active
		and healthy, food and drink are needed
		to provide energy for the body.
		to provide energy for the body.

Teaching Sequence for DT

Year 4 DT

Topic or Activity	Term 1 Knowledge Based Learning Objectives	Term 2 Knowledge Based Learning Objectives	Term 3 Knowledge Based Learning Objectives
Activity	I can use research for design ideas	Objectives	Objectives
	• I can show design meets a range of		
	requirements and is fit for purpose		
	• I can have at least one idea about how		
	to create product and suggest		
	improvements for design.		
	 I can produce a plan and explain it to others 		
	I can include an annotated sketch		
	I can make and explain design decisions		
	considering availability of resources		
	• I can select appropriate materials, fit		
	for purpose; explain choices		
	• I can realise if product is going to be		
	good quality		
	• I can measure, mark out, cut and shape		
	materials/components with some		
	accuracy		
	 I can assemble, join and combine materials and components with some 		
	accuracy		
	I can apply a range of finishing		
	techniques with some accuracy		
	• I can refer to design criteria while		
	designing and making		
Textiles	• I can use criteria to evaluate product		
	• I can begin to explain how I could		
	improve original design		
	 I can evaluate existing products, considering: how well they've been 		
	made, materials, whether they work,		
	how they have been made, fit for		
	purpose		
	• I can discuss by whom, when and		
	where products were designed		
	• I can research whether products can be		
	recycled or reused		
	• I can know about some		
	inventors/designers/ engineers/chefs/manufacturers of		
	ground-breaking products		
	• I can think about user when choosing		
	textiles		
	• I can think about how to make product		
	strong		
	I can begin to devise a template		
	 I can explain how to join things in a different way 		
	 I can understand that a simple fabric 		
	shape can be used to make a 3D textiles		
	project		
		•I can begin to create own design criteria	
		•I can have at least one idea about how	
		to create product and suggest	
		improvements for design.	
		 I can produce a plan and explain it to others 	
Electricity		•I can say how realistic plan is.	
		can include an annotated sketch	
		can make and explain design decisions	
		considering availability of resources	
		•I can explain how product will work	
		●I can make a prototype	

Teaching Sequence for DT

Π		
	•I can begin to use computers to show	
	design	
	•I can select suitable tools and	
	equipment, explain choices in relation	
	to required techniques and use	
	accurately	
	•I can select appropriate materials, fit for	
	purpose; explain choices	
	•I can work through plan in order.	
	•I can realise if product is going to be	
	good quality	
	•I can measure, mark out, cut and shape	
	materials/components with some	
	accuracy	
	•I can assemble, join and combine	
	materials and components with some	
	accuracy	
	•I can apply a range of finishing	
	techniques with some accuracy	
	•I can refer to design criteria while	
	designing and making	
	•I can use criteria to evaluate product	
	•I can begin to explain how I could	
	improve original design	
	•I can discuss by whom, when and where	
	products were designed	
	•I can know about some	
	inventors/designers/	
	engineers/chefs/manufacturers of	
	ground-breaking products	
	•I can use number of components in	
	circuit	
	•I can program a computer to control	
	product	
		• I understand that food is grown (such as
		tomatoes, wheat and potatoes), reared
		(such as pigs, chickens and cattle) and
		caught (such as fish) in the UK, Europe
		and the wider world.
		• I understand how to prepare and cook a
		variety of predominantly savoury dishes
		safely and hygienically including, where
Cooking &		appropriate, the use of a heat source.
Nutrition –		• I know how to use a range of techniques
Healthy		such as peeling, chopping, slicing,
savoury dish		grating, mixing, spreading, kneading and
savoury distr		baking.
		I know that a healthy diet is made up
		from a variety and balance of different
		· · · · · · · · · · · · · · · · · · ·
		food and drink, as depicted in 'The Eat
		well plate'
l l		The first of the second of the
		• I know that to be active and healthy,
		 I know that to be active and healthy, food and drink are needed to provide energy for the body.

Teaching Sequence for DT

Year 5 DT

individual ensure p I can created and appear I can evaluate and and appear I can evaluate and ap	Objectives	Term 2 Knowledge Based Learning Objectives	Term 3 Knowledge Based Learning Objectives
designer manufac products	begin to consider needs/wants of riduals/groups when designing and tre product is fit for purpose create own design criteria have a range of ideas produce a logical, realistic plan and ain it to others. use cross-sectional planning and otated sketches make design decisions considering and resources. clearly explain how parts of product work. model and refine design ideas by ing prototypes and using pattern es. use computer-aided designs use selected tools/equipment with delevel of precision produce suitable lists of tools, pment / materials needed select appropriate materials, fit for lose; explain choices, considering tionality create and follow detailed step-byplan explain how product will appeal to udience mainly accurately measure, mark cut and shape erials/components mainly accurately assemble, join combine materials/components mainly accurately apply a range of hing techniques use techniques that involve a small ber of steps begin to be resourceful with tical problems evaluate ideas and finished product not specification, considering purpose appearance. evaluate and discuss existing lucts, considering: how well they've a made, materials, whether they keep made, fit for lose are search how sustainable materials. talk about some key inventors / geners / engineers / chefs / ufacturers of ground-breaking		
I can atte I can con original o	attempt to make product strong continue working on product even if nal didn't work make a strong, stiff structure	I can use internet and questionnaires for research and design ideas I can take a user's view into account when designing	

Teaching Sequence for DT

	I can produce a logical, realistic plan and explain it to others. I can make design decisions considering time and resources. I can clearly explain how parts of product will work. I can model and refine design ideas by making prototypes and using pattern pieces. I can use computer-aided designs I can use selected tools/equipment with good level of precision I can produce suitable lists of tools, equipment / materials needed I can create and follow detailed step-bystep plan I can explain how product will appeal to an audience I can mainly accurately measure, mark out, cut and shape materials/components I can mainly accurately assemble, join	
	I can mainly accurately assemble, join and combine materials/components I can mainly accurately apply a range of finishing techniques I can use techniques that involve a small number of steps I can evaluate ideas and finished product against specification, considering purpose and appearance. I can evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose I can test and evaluate final product I can begin to evaluate how much products cost to make and how innovative they are I can research how sustainable materials are I can talk about some key inventors / designers / engineers / chefs / manufacturers of ground-breaking products I can select most appropriate tools / techniques I can explain alterations to product after checking it I can grow in confidence about trying	
	new / different ideas. I can use levers and linkages to create movement I can use pneumatics to create movement	
Cooking & Nutrition		I understand that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world. I am beginning to understand that seasons may affect the food available. I understand how food is processed into ingredients that can be eaten or used in cooking. I know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source.

Teaching Sequence for DT

	I am starting to understand how to use a
	range of techniques such as peeling,
	chopping, slicing, grating, mixing,
	spreading, kneading and baking.
	I am beginning to understand that
	different food and drink contain different
	substances – nutrients, water and fibre –
	that are needed for health.

Teaching Sequence for DT

Year 6 DT

Topic or Activity	Term 1 Knowledge Based Learning Objectives	Term 2 Knowledge Based Learning Objectives	Term 3 Knowledge Based Learning Objectives
	I can draw on market research to inform		
	design		
	I can use research of user's individual needs, wants, requirements for design		
	I can identify features of design that will		
	appeal to the intended user		
	I can create own design criteria and		
	specification I can come up with innovative design		
	ideas		
	I can follow and refine a logical plan.		
	I can use annotated sketches, cross-		
	sectional planning and exploded diagrams		
	I can make design decisions, considering,		
	resources and cost		
	I can use computer-aided designs		
	I can produce suitable lists of tools, equipment, materials needed,		
	considering constraints		
	I can select appropriate materials, fit for		
	purpose; explain choices, considering		
	functionality and aesthetics		
	I can create, follow, and adapt detailed		
	step-by-step plans I can explain how product will appeal to		
	audience; make changes to improve		
	quality		
	I can accurately measure, mark out, cut		
	and shape materials/components		
Textiles	I can accurately assemble, join and		
	combine materials / components I can accurately apply a range of finishing		
	techniques		
	I can use techniques that involve a		
	number of steps		
	I can keep checking design is best it can be.		
	I can evaluate ideas and finished product		
	against specification, stating if it's fit for		
	purpose		
	I can do thorough evaluations of existing products considering: how well they've		
	been made, materials, whether they		
	work, how they've been made, fit for		
	purpose I can evaluate how much products cost to		
	make and how innovative they are		
	I can research and discuss how		
	sustainable materials are		
	I can discuss some key inventors / designers / engineers / chefs /		
	manufacturers of ground-breaking		
	products		
	I can think about user's wants/needs and		
	aesthetics when choosing textiles I can make product attractive and strong		
	I can make a prototype		
	I can use a range of joining techniques		
	I can think about how product might be sold		
	I can think carefully about what would		
	improve product		

Teaching Sequence for DT

	I can understand that a single 3D textiles		
	project can be made from a combination		
	of fabric shapes.		
		I can use research of user's individual needs, wants, requirements for design	
		I can identify features of design that will	
		appeal to the intended user	
		I can come up with innovative design	
		ideas	
		I can follow and refine a logical plan.	
		I can use annotated sketches, cross-	
		sectional planning and exploded diagrams	
		I can clearly explain how parts of design	
		will work, and how they are fit for	
		purpose	
		I can independently model and refine	
		design ideas by making prototypes and	
		using pattern pieces I can use selected tools and equipment	
		precisely	
		I can produce suitable lists of tools,	
		equipment, materials needed,	
		considering constraints	
		I can select appropriate materials, fit for	
		purpose; explain choices, considering	
		functionality and aesthetics	
		I can create, follow, and adapt detailed	
		step-by-step plans	
		I can explain how product will appeal to	
		audience; make changes to improve	
		quality I can accurately measure, mark out, cut	
		and shape materials/components	
		I can accurately assemble, join and	
Electricity		combine materials / components	
		I can accurately apply a range of finishing	
		techniques	
		I can use techniques that involve a	
		number of steps	
		I can be resourceful with practical	
		problems I can evaluate quality of design while	
		designing and making; is it fit for	
		purpose?	
		I can keep checking design is best it can	
		be.	
		I can evaluate ideas and finished product	
		against specification, stating if it's fit for purpose	
		I can test and evaluate final product;	
		explain what would improve it and the	
		effect different resources may have had	
		I can do thorough evaluations of existing	
		products considering: how well they've been made, materials, whether they	
		work, how they've been made, fit for	
		purpose	
		I can evaluate how much products cost to	
		make and how innovative they are	
		I can research and discuss how	
		sustainable materials are	
		I can consider the impact of products beyond their intended purpose	
		I can discuss some key inventors /	
		designers / engineers / chefs /	
		manufacturers of ground-breaking	
		products	

Teaching Sequence for DT

	I can use different types of circuit in product I can think of ways in which adding a circuit would improve product I can program a computer to monitor changes in environment and control product	
Cooking & Nutrition		I know that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world. I understand that seasons may affect the food available. I understand how food is processed into ingredients that can be eaten or used in cooking. I know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source. I understand how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking. I know different food and drink contain different substances — nutrients, water and fibre — that are needed for health.