

Units of Learning	EYFS Nursery	EYFS Foundation Stage	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Kapow									
	<ul> <li>Develop their small motor skills so they can use a range of tools competently, safely and confidently.</li> <li>Explore different materials freely, in order to develop their ideas about how to use them and what to make.</li> <li>Develop their own ideas and then decide which materials to use to express them.</li> <li>Join different materials and explore different textures.</li> <li>Make imaginative and complex 'small worlds' with blocks</li> </ul>	<ul> <li>Use a range of small tools, including scissors, paintbrushes and cutlery.</li> <li>Return to and build on their previous learning, refining ideas and developing their ability to represent them.</li> <li>Create collaboratively sharing ideas, resources and skills.</li> <li>ELG</li> <li>Use a range of small tools, including scissors, paintbrushes and cutlery.</li> <li>Safely use and explore a variety of materials,</li> </ul>	generate, develop, motheir ideas through tal mock-ups and, where and communication tel Make select from and use an equipment to perform example, cutting, shap select from and use an and components, inclumaterials, textiles and their characteristics  Evaluate explore and evaluate a products  evaluate their ideas and design criteria  Technical knowledge	del and communicate king, drawing, templates, appropriate, information echnology  range of tools and practical tasks [for bing, joining and finishing] wide range of materials ading construction ingredients, according to a range of existing	generate, develop, mode cross-sectional and explose Make select from and use a wincutting, shaping, joining select from and use a wintextiles and ingredients, Evaluate investigate and analyse evaluate their ideas and others to improve their winderstand how key ever world.  Technical knowledge apply their understanding	der range of tools and eaccording to their functions arange of existing products against their every work.	and components, including tional properties and aest	in, annotated sketches, imputer-aided design ctical tasks [for example, g construction materials, hetic qualities is helped shape the re complex structures	
	and construction kits, such as a city with different buildings and a park.	tools and techniques, experimenting with colour, design, texture, form and function.	Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.  Cooking and Nutrition use the basic principles of a healthy and varied		understand and use electrical systems in their products [for example, series circuits incorpositions, bulbs, buzzers and motors]  Apply their understanding of computing to program, monitor and control their products.				
		<ul> <li>Share their creations, explaining the process they have used.</li> </ul>			Cooking and Nutrition understand and apply the principles of a healthy and varied diet  prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques				
			Understand where foo	od comes from.	Understand seasonality, caught and processed.	and know where and h	low a variety of ingredient	s are grown, reared,	



Substantive Knowledge Textiles	Over the Rainbow  Join different materials and explore different textures.	Imagine that!  Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	Textiles- Sewing Skills (Pouches- Kapow)  To know that sewing is a method of joining fabric.  To know that different stitches can be used when sewing.  To understand the importance of tying a knot after sewing the final stitch.  To know that a thimble can be used to protect my fingers when sewing.	Textiles- fastenings (Kapow)  To know that a fastening is something which holds two pieces of material together for example a zipper, toggle, button, press stud and velcro.  To know that different fastening types are useful for different purposes.  To know that creating a mock up (prototype) of their design is useful for checking ideas and proportions	Textiles- Make a Stuffed Toy (Kapow)  To know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric.  To understand that it is easier to finish simpler designs to a high standard.  To know that soft toys are often made by creating appendages separately and then attaching them to the main body.  To know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong and holds the stuffing securely.
Disciplinary Knowledge (skills) Textiles	Over the rainbow  Join different materials and explore different textures.	Imagine that!  Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	Textiles- Sewing Skills (Pouches- Kapow)  Design- Designing a pouch.  Make- Selecting and cutting fabrics for sewing.  Decorating a pouch using fabric glue or running stitch.	Textiles- fastenings (Kapow)  Design- Writing design criteria for a product, articulating decisions made.  Designing a book sleeve.  Make-	Textiles- Make a Stuffed Toy (Kapow)  Design- Designing a stuffed toy, considering the main component shapes required and creating an appropriate template.  Considering the proportions of



	Threading a readle	Making and toating a	Sandis Salvad
	Threading a needle.	Making and testing a	individual
		paper template with	components.
		accuracy and in	
		keeping with the	
	Sewing running stitch,	design criteria.	Make-
	with evenly spaced,		Creating a 3D stuffed
	neat, even stitches to	Measuring, marking	toy from a 2D design.
	join fabric.		, ,
		and cutting fabric	Measuring, marking
	Neatly pinning and	using a paper	and cutting fabric
	cutting fabric using a	template.	accurately and
	template.		independently.
	F .1	Selecting a stitch style	
	Evaluate-	to join fabric, working	Creating strong and
	Reflecting on a finished	neatly by sewing	secure blanket
	product, explaining	small, straight	stitches when joining
	likes and dislikes	stitches.	fabric.
		suitiles.	Tablic.
			Threading poodles
		Incorporating	Threading needles
		fastening to a design	independently.
		Evaluate-	Using appliqué to
		Testing and evaluating	attach pieces of fabric
		an end product	decoration.
		against the original	
			Sewing blanket stitch
		design criteria.	to join fabric.
		Deciding how many of	Applying blanket stitch
		the criteria should be	so the spaces between
		met for the product to	the stitches are even
		be considered	and regular.
		successful.	
		3455555.4.1	Evaluate-
		Suggesting	Testing and evaluating
		Suggesting	an end product and
		modifications for	giving point for further
		improvement.	improvements
			p. o.c.iiciici
		Articulating the	
		advantages and	
		disadvantages of	
		different fastening	
		types	



	Over the rainbow	Imagine that!		Textiles- Sewing Skills		Textiles- fastenings	Textiles- Make a	
	Material	Colour		(Pouches- Kapow)		(Kapow)	Stuffed Toy (Kapow)	
<b>Key Vocabulary</b>	Texture	Fabric		Running-stitch		Aesthetic	Accurate	
	Colour Fabric	Paint Print						
	Paint	decorate		Sew		Assemble	Annotate	
				Shape		strengthen	Appendage	
				Stencil		Fastening	Blanket-stitch	
				Template		Mock-up	technique	
				Thimble		Target audience	seam	
Substantive	Night and Day	Magical Me	Make a Smoothie	Designing a Healthy	Eating Seasonally	Adapting a recipe	What could be	Making bread and
			(Kapow)	Meal (Kapow)	(Kapow)	(Kapow)	healthier? (Kapow)	soup
Knowledge	Develop their small	Use a range of small		Designing a healthy				_ , , , , , , , , , , , , , , , , , , ,
	motor skills so they can	tools, including scissors,	Understanding the	wrap based on a food	To know that not all	To know that the	To understand where	To know that 'flavour'
	use a range of tools	paintbrushes and	difference between	combination which	fruits and vegetables	amount of an	meat comes from -	is how a food or drink
	competently, safely and	cutlery.	fruits and vegetables.	works well together	can be grown in the	ingredient in a recipe	learning that beef is	tastes.
	confidently	,	To understand that	Works well together	UK.	is known as the 'quantity.'	from cattle and how beef is reared and	To know that many
<b>Cooking and</b>	Down at the bottom of	Create collaboratively	some foods typically	Slicing food safely using	To know that climate	quantity.	processed, including	countries have
	the Garden	sharing ideas, resources	known as vegetables	the bridge or claw grip.	affects food growth.	To know that it is	key welfare issues.	'national dishes' which
Nutrition	the darden	and skills	are actually fruits	Comptunition	ancets food growth.	important to use oven	Rey Wellare 133ues.	are recipes associated
	Develop their small		(e.g. cucumber).	Constructing a wrap	To know that	gloves when removing	To know that I can	with that country.
	motor skills so they can	<u>Let's Celebrate</u>	(8	that meets a design	vegetables and fruit	hot food from an	adapt a recipe to	,
	use a range of tools		To know that a	brief.	grow in certain	oven.	make it healthier by	To know that
	competently, safely and	Use a range of small	blender is a machine	Describing the taste,	seasons.		substituting	'processed food'
	confidently	tools, including scissors,	which mixes	texture and smell of		To know the following	ingredients.	means food that has
		paintbrushes and	ingredients together	fruit and vegetables.	To know that cooking	cooking techniques:		been put through
		cutlery.	into a smooth liquid.	Taste testing food	instructions are	sieving, creaming,	To know that I can use	multiple changes in a
		,		combinations and final	known as a 'recipe'.	rubbing method,	a nutritional calculator	factory.
		Create collaboratively	To know that a fruit	products.		cooling.	to see how healthy a	
		sharing ideas, resources	has seeds and a		To know that		food option is.	To understand that it
		and skills	vegetable does not.	Describing the information that should	imported food is food	To understand the	Todo wate and the et	is important to wash
			To know that fruits	be included on a label.	which has been brought into the	importance of budgeting while	To understand that 'cross-contamination'	fruit and vegetables before eating to
			grow on trees or		country.	planning ingredients	means bacteria and	remove any dirt and
		What's in the woods?	vines.	Evaluating which grip was most effective.	country.	for biscuits.	germs have been	insecticides.
					To know that exported		passed onto ready-to-	
		Use a range of small	To know that	To know that 'diet'	food is food which has		eat foods and it	To understand what
		tools, including scissors,	vegetables can grow	means the food and	been sent to another		happens when these	happens to a certain
		paintbrushes and	either above or	drink that a person or	country.		foods mix with raw	food before it appears
		cutlery.	below ground.	animal usually eats.			meat or unclean	on the supermarket
				To understand what	To understand that		objects	shelf (Farm to Fork).
		Share their creations,	To know that	makes a balanced diet.	imported foods travel			
		explaining the process	vegetables can come	To know where to find	from far away and this			
		they have used.	from different parts	the nutritional	can negatively impact			
		and have asea.	of the plant (e.g.	information on	the environment.			
			roots: potatoes,	packaging.				



			leaves: lettuce, fruit: cucumber).  Learning where and how fruits and vegetables grow.	To know that the five main food groups are: Carbohydrates, fruits and vegetables, protein, dairy and foods high in fat and sugar.  To understand that I should eat a range of different foods from each food group, and roughly how much of each food group.  To know that nutrients are substances in food that all living things need to make energy, grow and develop.  To know that 'ingredients' means the items in a mixture or recipe.  To know that I should only have a maximum of five teaspoons of sugar a day to stay healthy.  To know that many food and drinks we do not expect to contain sugar do; we call these 'hidden sugars'.	To know that each fruit and vegetable gives us nutritional benefits because they contain vitamins, minerals and fibre.  To understand that vitamins, minerals and fibre are important for energy, growth and maintaining health.  To know safety rules for using, storing and cleaning a knife safely.  To know that similar coloured fruits and vegetables often have similar nutritional benefits.			
Disciplinary	Night and Day	Magical Me	Make a Smoothie (Kapow)	Designing a Healthy Meal (Kapow)	Eating Seasonally (Kapow)	Adapting a recipe (Kapow)	What could be healthier? (Kapow)	Making bread and soup
knowledge	Develop their small motor skills so they can	Use a range of small	Design-	<b>Design-</b> Designing a	Design-	Design-		Design-
(Skills)	use a range of tools	tools, including scissors, paintbrushes and	Designing smoothie	healthy wrap based on a food combination	Creating a healthy and	Designing a biscuit	<b>Design-</b> Adapting a traditional	Writing a recipe,
Cooking and	competently, safely and confidently	cutlery.	carton packaging by- hand or on ICT	which works well	nutritious recipe for a savoury tart using	within a given budget, drawing upon	recipe, understanding that the nutritional	explaining the key steps, method and
Nutrition	Down at the bottom of	Create collaboratively	software	together	seasonal ingredients,	previous taste testing judgements	value of a recipe alters	ingredients.
	the Garden	sharing ideas, resources and skills	Make-	Make- Slicing food safely using the bridge	considering the taste, texture, smell and	Make-	if you remove, substitute or add	Including facts and drawings from
	Develop their small motor skills so they can	<u>Let's Celebrate</u>	Chopping fruit and vegetables safely to	or claw grip.	appearance of the dish.	Following a baking	additional ingredients.	research undertaken
	use a range of tools		make a smoothie.		<b>4.5</b>	recipe, from start to		Make-



	competently, safely and	Use a range of small	Identifying if a food is	Constructing a wrap	Make-	finish, including the	Writing an amended	Following a recipe,
	confidently	tools, including scissors,	a fruit or a vegetable.	that meets a design	knowing how to	preparation of	method for a recipe to	including using the
		paintbrushes and		brief.	prepare themselves	ingredients.	incorporate the	correct quantities of
		cutlery.		<b>Evaluate-</b> Describing	and a work space to	Cooking safely,	relevant changes to	each ingredient.
			Evaluate-	the taste, texture and	cook safely in, learning the basic	following basic	ingredients.	Adapting a recipe
		Create collaboratively	Tasting and	smell of fruit and	rules to avoid food	hygiene rules.	Designing appealing	based on research.
		sharing ideas, resources	evaluating different	vegetables.	contamination.	, ,	packaging to reflect a	
		and skills	food combinations.	Taste testing food	Following the	Adapting a recipe to	recipe.	Working to a given
		What's in the woods?	Describing	combinations and final	instructions within a	improve it or change it		timescale.
		What's in the woods?	appearance, smell	products.	recipe	to meet new criteria	Make-	Working safely and
		Use a range of small	and taste.	Describing the		(e.g. from savoury to	Cutting and preparing	hygienically with
		tools, including scissors,	Suggesting information to be	information that should	Evaluate-	sweet).	vegetables safely.	independence.
		paintbrushes and	included on	be included on a label.	Establishing and using design criteria to help	Evaluate-	Using equipment	Evaluate-
		cutlery.	packaging.	Evaluating which grip	test and review	Evaluating a recipe,	safely, including	Evaluating a recipe,
		Cationy.	1	was most effective.	dishes.	considering: taste,	knives, hot pans and	considering: taste,
		Share their creations,				smell, texture and	hobs.	smell, texture and
		explaining the process			Describing the	appearance.		origin of the food
		they have used.			benefits of seasonal	Describing the impact	Knowing how to avoid	group.
		they have used.			fruits and vegetables and the impact on	of the budget on the	cross-contamination. Following a step by	Taste testing and
					the environment.	selection of	step method carefully	scoring final products.
						ingredients.	to make a recipe	
					Suggesting points for	Evaluating and		Suggesting and writing
					improvement when	comparing a range of	Evaluate-	up points of
					making a seasonal	food products.	Identifying the	improvements when
					tart.	Cuggosting	nutritional differences between different	scoring others' dishes,
						Suggesting modifications to a	products and recipes.	and when evaluating their own throughout
						recipe (e.g. This biscuit	Identifying and	the planning,
						has too many raisins,	describing healthy	preparation and
						and it is falling apart,	benefits of food	cooking process.
						so next time I will use	groups.	
						less raisins).		Evaluating health and
								safety in production to
								minimise cross contamination
								Contamination
	Night and Day	Magical Me	Make a Smoothie	Designing a Healthy	Eating Seasonally	Adapting a recipe	What could be	Making bread and
<b>Key Vocabulary</b>	Hot	Mix	(Kapow)	Meal (Kapow)	(Kapow)	(Kapow)	healthier? (Kapow)	Soup Cross contamination
itey vocabalaly	Cold Mix	Healthy spoon	Healthy Ingredients	Alternative	Climate Exported	Adapt Budget	Cross-contamination Ethical issues	Cross-contamination Imperative-verb
	Healthy	bowl	Peel	Diet	Imported	Creaming	sustainable	Nationality
	Chop	toppings	Peeler	Balanced diet	Nutrients	Prototype	Reared	sustainable
	Safely	oats	Recipe	Healthy	Seasonal food Seasons	Sieving	Substitute	Processed
			Slice	Ingredients		Utilities	Vegan	Reared
			Smoothie	Nutrients				



Substantive	Make a Moving Toy	Make a Moving	Make a Moving Robot	Pop-up book (Kapow)	Automata toys
Knowledge	(Kapow)	Storybook (Kapow)	- Levers and Sliders	To know that	(Kapow)
Kilowicuge	To know that wheels	To know that	(PSM Capital)	mechanisms control	To understand that
	need to be round to	mechanisms are a	To know that	movement.	the mechanism in an
Mechanisms	rotate and move.	collection of moving	mechanisms are a		automata uses a
/ Mechanical		parts that work	collection of moving	To understand that	system of cams, axles
	To understand that	together as a machine	parts that work	mechanisms can be	and followers.
Systems	for a wheel to move	to produce movement.	together as a machine to produce	used to change one	T
	it must be attached to a rotating axle.	To know that there is	movement.	kind of motion into another.	To understand that different shaped cams
	to a rotating axic.	always an input and		another.	produce different
	To know that an axle	output in a mechanism.	To know that there is	To understand how to	outputs
	moves within an axle		always an input and	use sliders, pivots and	
	holder which is fixed	To know that an input	output in a mechanism.	folds to create paper-	To know that an
	to the vehicle or toy.	is the energy that is	The changin.	based mechanisms.	automata is a hand
		used to start something working.	To know that an input	To know that a design	powered mechanical toy.
	To know that the		is the energy that is	brief is a description	toy.
	frame of a vehicle	To know that an output	used to start something working.	of what I am going to	To know that a cross-
	(chassis) needs to be	is the movement that	Something working.	design and make.	sectional diagram
	balanced.	happens as a result of	To know that an	To know that	shows the inner
	To know some real-	the input.	output is the	designers often want	workings of a product.
	life items that use	To know that a lever is	movement that	to hide mechanisms to make a product more	To understand how to
	wheels such as	something that turns	happens as a result of	aesthetically pleasing.	use a bench hook and
	wheelbarrows,	on a pivot.	the input.	71	saw safely.
	hamster wheels and vehicles.	To know that a linkage	To know that a lever is		
	venicies.	mechanism is made up	something that turns		To know that a set
		of a series of levers	on a pivot.		square can be used to
			To know that a linkage		help mark 90° angles.
			mechanism is made		
			up of a series of		
			levers.		
			To know some real-life		
			objects that contain		
			mechanisms		
	Make a Moving Toy	Make a Moving	Make a Moving Robot	Pop-up book (Kapow)	Automata toys
Disciplinary	(Kapow)	Storybook (Kapow)	- Levers and Sliders	r op-up book (kapow)	(Kapow)
Knowledge	<u> </u>		(PSM Capital)	Design-	I I
(Skills)	Design-	Design-		Designing a pop-up	Design-
	Designing a vehicle	Explaining how to	Design-	book which uses a	Experimenting with a
	that includes wheels,	adapt mechanisms,	Creating a class design	mixture of structures	range of cams,
Mechanisms	axles and axle	using bridges or guides to control the	criteria for a moving	and mechanisms.	creating a design for an automata toy
/ Mechanical	holders, that when	movement. • Designing	robot.		based on a choice of
		oreema Designing			3333 311 4 6110100 01



	 	combined, will allow	a moving story book for	Docigning a moving	Naming oach	cam to croate a
Systems		· ·	a moving story book for	Designing a moving	Naming each	cam to create a
		the wheels to move.	a given audience.	robot for a specific	mechanism, input and	desired movement.
		Creating clearly	Basis	audience in	output accurately.	Unadameta adila a la acci
		labelled drawings	Make-	accordance with a	Chamile a sudine ideas	Understanding how
		that illustrate	Following a design to	design criteria	Storyboarding ideas	linkages change the
			create moving models	Designing a toy which	for a book	direction of a force.
		movement.	that use levers and	uses a levers and		Making things move at
		Make-	sliders.	sliders	Make-	the same time.
		Adapting	Fuelusts	Developing design	Widke	Understanding and
		mechanisms, when:	Evaluate-	criteria from a design	Following a design	Understanding and
			Testing a finished	brief.	brief to make a pop up	drawing cross-
		they do not work as	product, seeing whether it moves as	Sile.	book, neatly and with	sectional diagrams to show the inner-
		they should.	planned and if not,	Generating ideas using	focus on accuracy.	workings of my
		to fit their vehicle	explaining why and	thumbnail sketches	·	design.
			how it can be fixed.	and exploded	Making mechanisms	ucsigii.
		design.	HOW IT CAIT BE TIXEU.	diagrams. Learning	and/or structures	
		to improve how they	Reviewing the success	that different types of	using sliders, pivots	Make-
		work after testing	of a product by testing	drawings are used in	and folds to produce	
		their vehicle.	it with its intended	design to explain ideas	movement.	Measuring, marking
			audience	clearly	Haina lavora and	and checking the
		Evaluate-	dudiciice		Using layers and	accuracy of the
		Testing wheel and		Make-	spacers to hide the	jelutong and dowel
		axle mechanisms,		Making linkages using	workings of	pieces required.
		identifying what		Making linkages using card for levers and	mechanical parts for an aesthetically	
		stops the wheels		split pins for pivots.	pleasing result.	Measuring, marking
		from turning, and		split pills for pivots.	pleasing result.	and cutting
		recognising that a		Experimenting with	Evaluate-	components
		wheel needs an axle		linkages adjusting the		accurately using a
		in order to move.		widths, lengths and	Evaluating the work of	ruler and scissors.
				thicknesses of card	others and receiving	Assembling
				used.	feedback on own	components
					work.	accurately to make a
				Cutting and		stable frame.
				assembling	Applying points of	
				components neatly.	improvement to their	Understanding that
					books.	for the frame to
				Selecting materials		function effectively
				due to their functional	Describing changes	the components must
				and aesthetic	-	be cut accurately and
				characteristics.	they were to do the	the joints of the frame
				<b>Evaluate-</b> Using the	project again.	secured at right
				views of others to		angles.
				improve designs.		Coloating
				improve designs.		Selecting appropriate
				Testing and modifying		materials based on
				the outcome,		the materials being
				,		joined and the speed



		Make a Moving Toy	Make a Moving	suggesting improvements.  Make a Moving Robot		Pop up book (Kanow)	at which the glue needs to dry/set.  Evaluate- Evaluating the work of others and receiving feedback on their own work.  Applying points of improvement to their toys.  Describing changes they would make/do if they were to do the project again.
Key Vocabulary		Make a Moving Toy (Kapow) Axle Axle holder Chassis Design Mechanic Mechanism	Make a Moving Storybook (Kapow) Assemble Design Mechanism Model Sliders Stencil Template	- Levers and Sliders (PSM Capital) Input Lever Linkage Mechanical Mechanism Pivot		Pop-up book (Kapow) Aesthetic Computer-aided design (CAD) Motion Output Pivot Prototype	Automata toys (Kapow) Automata Bench hook Cam Clamp Component Dowel
Substantive Knowledge Electrical Systems					Fan Boats To know that series circuits only have one direction for the electricity to flow.  To know when there is a break in a series circuit, all components turn off.  To know that an electric motor converts electrical energy into rotational movement, causing the motor's axle to spin.  To know a motorised product is one which		Steady hand game (Kapow) To know that batteries contain acid, which can be dangerous if they leak.  To know the names of the components in a basic series circuit, including a buzzer.  To understand the diagram perspectives 'top view', 'side view' and 'back'.



		uses a motor to	
		function.	
		Turiction.	
Disciplinary		Fan Boats	Steady hand game
Disciplinary			<u>(Kapow)</u>
Knowledge		Design-	
			Design-
		Designing a functional	Designing a steady
Electrical		fan boat, giving	hand game -
Systems		consideration to the	identifying and
7000		target audience and	naming the
		creating both design	components required.
		and success criteria	
		focusing on features	Drawing a design from
		of individual design	three different
		ideas.	perspectives.
		Make-	Concepting ideas
		Making a functional	Generating ideas through sketching and
		series circuit,	discussion.
		incorporating a motor.	
			Modelling ideas
		Constructing a	through prototypes
		product with	
		consideration for the	Make-
		design criteria.	Constructing a stable
		Using appropriate	base for a game.
		equipment to cut and attach materials	Accurately cutting,
		attacii illateriais	folding and
		Evaluate-	assembling a net.
		Evaluating electrical	Descripting the base of
			Decorating the base of
		products.	the game to a high quality finish.
		Testing and evaluating	quality lillisii.
		the success of a final	Making and testing a
		product.	circuit.
		To evaluate ideas and	Incorporating a circuit
		product against design	into a base.
		criteria and consider	
		how to improve work.	Evaluate-
			Testing own and
			others finished games,
			identifying what went
			well and making
			suggestions for
			improvement.



W					Fan Boats	Steady hand game
Key Vocabulary					Fan boat	(Kapow)
					Float	Circuit
					Glide	Circuit symbol
					Series circuit	Component
					Configuration	Conductor
						Copper
						Insulator
	Mr. Mould Vous would	Once Unen e Time	Model Houses /DCM	Diantors		
Substantive	My World, Your world	Once Upon a Time	Model Houses (PSM	<u>Planters</u>		
Knowledge	Explore different	Looking at different	<u>Capital)</u>	Investigate similar		
	materials freely, in	types of bridges and	To understand that	products to the one to		
	order to develop their	exploring how to make	the shape of	be made to give		
Structures	ideas about how to use	them. Which is the	materials can be	starting points for a		
	them	strongest?	changed to improve	design.		
			the strength and	Draw/skatah araduats		
	Superheroes (people	Explore raft/boat	stiffness of	Draw/sketch products to help analyse and		
	who help us)	building – construct a	structures.	understand how		
		boat that will float		products are made.		
	Make imaginative and	exploring how to join	To understand that	products and made.		
	complex small world, with blocks and	the materials together, best materials to use.	cylinders are a strong type of structure	Research needs of		
	construction kits.	Dest materials to use.	(e.g. the main shape	user.		
	Construction Rits.	Return to and build on	used for houses).	Identify the strengths		
		their previous learning,		and weaknesses of		
		refining ideas and	To begin to	their design ideas in		
		developing their ability	understand that	relation to		
		to represent them.	different structures	purpose/user.		
			are used for different			
		Create collaboratively	purposes.	Decide which design		
		sharing ideas, resources	To know that a	idea to develop.		
		and skills.	structure is	Investigate key events		
			something that has	and individuals in		
			been made and put	design and		
			together.	technology.		
				Develop vocabulary		
				related to the project.		
				Create shell or frame		
				structures.		



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				Make structures more stable by giving them a wide base.		
Disciplinary	My World, Your world	Once Upon a Time	Model Houses (PSM	<u>Planters</u>		
			Capital)			
Knowledge	Explore different	Looking at different	_ <del></del>	Design-		
(Skills)	materials freely, in	types of bridges and	Design-			
	order to develop their	exploring how to make		Plan a sequence of		
Structures	ideas about how to use	them. Which is the	Learning the	actions to make a		
	them	strongest?	importance of a clear	product.		
			design criteria	Record the plan by		
	Superheroes (people	Explore raft/boat	Including individual preferences and	drawing using		
	who help us)	building – construct a	requirements in a	annotated sketches.		
		boat that will float	design			
	Make imaginative and	exploring how to join		Begin to use cross-		
	complex small world, with blocks and	the materials together,		sectional and		
	construction kits.	best materials to use.	Make-	exploded diagrams.		
	construction kits.	Return to and build on	Making stable	Use prototypes to		
		their previous learning,	structures from card,	develop and share		
		refining ideas and	tape and glue	ideas.		
		developing their ability		lucus.		
		to represent them.	Following	Think ahead about the		
			instructions to cut and assemble the	order of their work		
		Create collaboratively	supporting structure	and decide upon tools		
		sharing ideas, resources	supporting structure	and materials.		
		and skills.	Evaluate-	Propose realistic		
				suggestions as to how		
			Evaluating a	they can achieve their		
			structure according	design ideas.		
			to the design criteria,			
			testing whether the structure is strong	Consider aesthetic		
			and stable and	qualities of materials		
			altering it if it isn't ·	chosen.		
			Suggest points for	Make-		
			improvements	IVIANC-		
				Prepare pattern pieces		
				as templates for their		
				design.		
				Cut slots.		
				Select from a range of		
				tools for cutting,		



				shaping joining and finishing.		
				1111311116.		
				Use tools with		
				accuracy.		
				Select from		
				techniques for		
				different parts of the		
				process.		
				Select from materials		
				according to their		
				functional properties.		
				Plan the stages of the		
				making process.		
				Use appropriate		
				finishing techniques.		
				Evaluate-		
				Consider and explain		
				how the finished		
				product could be		
				improved.		
				Discuss how well the		
				finished product		
				meets the design		
				criteria of the user.		
	My World, Your world	Once Upon a Time	Model Houses (PSM	<u>Planters</u>		
<b>Key Vocabulary</b>	Block	Structure	Capital)	Stable		
	Stack	Stronger	Stronger	Strong		
	Join	Material	Structure	Structure		
	Stronger	Design	Materials	Weak		
	Material	Make	Model	Design criteria		
	Make		Attach	Evaluate		
			Design			