	Y1	Y2	Y3	¥4	Y5	Y6
Autumn	Where do I live?	What was Hyde like in the	What makes a river?	How did life in Britain change when	Why are biomes important to the	What matters to the Vikings?
	Mechanisms	past?	Electrical systems	the Romans ruled?	world?	Mechanisms
	Sliders and levers	Structures	Simple circuits and switches	Textiles	(Arctic / Antarctica / Polar regions)	Cams
	Moving bus, canal boat,	Free standing structures	Make a lighthouse	2-D shape to 3-D product	Electrical Systems	Viking Automats
	vehicle person on main	Make local buildings and	Use annotated sketches,	Make an item of clothing or	More complex switches and circuits	Generate ideas through research and
	street canal in Hyde	structures	cross-sectional and exploded	accessory	Design an electrical product for	develop and communicate a simple
	Generating, modelling	Generating design ideas;	diagrams to develop and	Generate design criteria for an	explorers	design specification.
	and communicating	developing modelling and	communicate ideas.	appealing product for specific users.	Develop a design specification for a	Select use a range of tools and
	ideas.	explaining using talk, mock-	Select and use tools with	Produce annotated sketches,	functional product that responds	equipment to make products that are
	Planning making,	ups and drawings.	some accuracy to cut, shape,	prototype, final product sketches and	automatically to changes in the	accurately assembled and well finished
	selecting tools and using	Planning making, selecting	join and finish.	pattern pieces.	environment.	within the constraints of time,
	finishing techniques.	tools and new and recycled	Use construction materials	Select fabrics and fastenings	Formulate a step-by-step plan to	resources and cost.
	Exploring products;	materials; using finishing	and electrical components	according to functional	making, listing tools, equipment,	Compare the final product to the
	evaluating own product	techniques.	according to their functional	characteristics.	materials and components.	original design specification and test
	against original criteria.	Exploring existing	properties and aesthetic	Investigate a range of 3-D textile	Use a computer control program to	the quality of the design, manufacture
	Exploring sliders and	freestanding structures;	qualities.	products.	enable an electrical product to	and functionality with the user.
	levers; understanding	evaluating their own	Understand and use	Test their product against the original	work automatically in response to	Investigate famous manufacturing and
	types of movement;	products against original	electrical systems in their	criteria and with the intended user.	change in the environment.	engineering companies relevant to the
	technical vocabulary.	criteria.	products, such as series		Test and evaluate the system to	project.
	teennear voeabalary.	Know about strengthening	circuits incorporating		demonstrate its effectiveness for	
		structures; knowledge of	switches, bulbs and buzzers.		the intended user and purpose.	
		vocabulary.			Know and use technical vocabulary	
		· · · · · · · · · · · · · · · · · · ·			relevant to the project.	
Spring	How is a farm different	Who is Rosa Parks and why	What makes a mountain?	Food technology	Why would you visit London?	
008	to Hyde?	is she remembered?	Food technology	Healthy and varied diet	Structures	
	Food technology	Textiles	Healthy and varied diet	Spanish food	Frame structures	
	Preparing fruit and	Uses of everyday materials	Healthy packed lunch to	Make savoury Spanish dishes to eat	Design a skyscraper.	
	vegetables	If Rosa Parks lived today,	take on a hike (walk up	together	Formulate a pan with a step-by-	
	Healthy food using	what would she wear?	Werneth Low to test	Generate ideas and develop design	step list of tasks and resources.	
	vegetables grown on a	Design a part of her outfit.	weight)	criteria for an appealing product for a	Use tools to accurately measure,	
	farm. Food to plate.	Generate, develop, model	Generate ideas and develop	user and purpose.	mark out, cut, shape and join	
	Designing appealing	and communicate their ideas	design criteria for an	Plan the main stages of a recipe,	materials to make frameworks.	
	products for a user,	through talking, drawing,	appealing product for a user	listing ingredients, utensils and	Use finishing techniques suitable	
	investigating fruit and	templates and mock-ups	and purpose.	equipment.	for the product and critically	
	vegetables and	Select from and use a range	Plan the main stages of a	Select from a range of ingredients to	evaluate their products against a	
	generating ideas;	of tools and equipment to	recipe, listing ingredients,	make appropriate food products.	range of criteria.	
	communicating through	perform practical tasks.	utensils and equipment.	Carry out and record evaluations of a	Research key evets and individuals	
	talk and drawings.	Select from and use a wide	Select from a range of	variety of ingredients and products.	relevant to frame structures.	
	Selecting a range of	range of materials and	ingredients to make	Know a range of appropriate		
	fruits and vegetables;	components, including	appropriate food products.	ingredients, and whether they are		
	using simple utensils and	materials and textiles,	Carry out and record	grown, reared or caught.		
	equipment.	according to their	evaluations of a variety of			
	Tasting and evaluating	characteristics	ingredients and products.			
	user's preference;		Know a range of appropriate			
	evaluating ideas and		ingredients, and whether			
	finished products		they are grown, reared or			
	against original criteria.		caught.			
	Understand where					
	ingredients come from					
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	and the basis of a					
	healthy and varied diet.					
Summer	How is Antarctica	How has transport changed?	Why would you visit Hyde?	How can I be a good citizen of the	Why are biomes important to the	Food technology
	similar/different to the	Mechanisms	Fairtrade	world	world?	Celebrating culture and seasonality
	UK?	Wheels and axles	Structure	Mechanisms	(Rainforests)	Mexican food- Make savoury dishes
	Textiles	Create a vehicle.	Shell structures	Levers and linkages	Textiles	to eat together
	Templates and joining	Generate ideas and simple	Make packaging for a	Make a litter picker	Combining different fabric shapes.	Generate and explore innovative ideas
	techniques	design criteria.	Fairtrade product e.g.	Generate realistic ideas and use	Create a textile product to sell in	through research and discussion to
	Make a puppet	Develop and communicate	biscuits	annotated sketches and prototypes	support of WWF/Save the	develop a design brief.
	Design a functional,	ideas through drawings and	Generate and develop	to develop, model and communicate	Rainforest, bag, t-shirt, hat, pencil	Write a step-by-step recipe, including a
	appealing product for a	mock-ups.	realistic ideas and design	ideas.	case.	list of ingredients, equipment and
	chose user and purpose.	Select a range of tools and	criteria collaboratively and	Select and use tools with some	Generate and communicate	utensils.
	Generate, develop and	materials to perform	through analysis of existing	accuracy to cut, shape and join paper	innovative ideas through research.	Using appropriate utensils and
	communicate ideas.	practical tasks.	products.	and card.	Produce detailed lists of equipment	equipment accurately, make, decorate
	Use a range of textiles,	Explore wheels and axles and	Order the stage of making;	Investigate and analyse their own and	and fabrics and formulate step-by-	and present a food product for the
	tools and equipment to	evaluate their ideas and	selecting tools and using	others' products with lever and	step plans for making.	intended user and purpose.
	perform practical tasks.	products against original	with some accuracy.	linkage mechanisms.	Investigate and analyse textile	Evaluate a range of relevant products
	Explore and evaluate	criteria.	Investigate and evaluate	Understand and use lever and	products linked to their final	and ingredients and the final product
	existing textile products		shell structures, and	linkages, and fixed and loose pivots.	product to the original design	with reference to the design brief and
	and their own ideas and		construct strong, stiff shell		specification.	specification.
	products.		structures.		Know that a 3-D textile product can	Understand seasonality and the source
	Understand how 3-D		Test and evaluate own		be made from a combination of	of different food products
	textile products are		products against design		pattern pieces, fabric shapes and	
	made, using joining,		criteria and intended user		different fabrics and that fabrics	
	templates and finishing		and purpose.		can be strengthened, stiffened and	
	to create two identical				reinforced.	
	shapes.					