	DT Unit (Year 2 Autumn		
Unit	Prior learning (Retrieval)	Future learning	Common Misconceptions
Final piece: Mechanism	Assembled vehicles with	Design	-
Sliders an levers Christmas Card	moving wheels using	Generate ideas based on simple design	
Christmas Card	construction kits. • Explore moving vehicles	criteria and their own experiences,	
	through play.	explaining what they could make.Develop, model and communicate	
	Gained some experience of	their ideas through drawings and mock	_
الم والم والم	designing, making and	ups with card and paper.	
	evaluating products for a	Make	
	specified user and purpose.Developed some cutting,	Plan by suggesting what to do next.	
	joining and finishing skills with	• Select and use tools, explaining their	
	card.	choices, to cut, shape and join paper	
		and card.	
		Use simple finishing techniques suitable for the product they are	
		suitable for the product they are creating.	
		Evaluate	
		Explore a range of existing books and	
		everyday products that use simple	
		sliders and levers.	
		• Evaluate their product by discussing	
		how well it works in relation to the	
		purpose and the user and whether it	
		meets design criteria.	
National Curriculum Subject	Key stage 1		
Content:		ical activities, pupils should be taught the	
		ss of designing and making. They should rdens and playgrounds, the local commu	_
	environment].	dens and playgrounds, the local commu	mity, madatry and the wider
	When designing and making, pupils sho	ould be taught to:	
	Design		
		ppealing products for themselves and ot	_
		communicate their ideas through talking,	drawing, templates, mock-ups and,
	where appropriate, information and co Make	emmunication technology	
		ools and equipment to perform practica	tasks [for example, cutting, shaping,
	joining and finishing]		, , , , , , , , , , , , , , , , , , , ,
	- select from and use a wide rang	ge of materials and components, includin	g construction materials, textiles and
	ingredients, according to their characte	eristics	
	Evaluate	ovisting products	
	 explore and evaluate a range of evaluate their ideas and product 		
	Technical knowledge	as against acsign criteria	
	- build structures, exploring how they can be made stronger, stiffer and more stable		
	- explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		
Design Knowledge:	Explore and use sliders and levers.		
		nanisms produce different types of move	ment.
	Know and use technical vocabu	lary relevant to the project.	
Knowledge Sequence:			Key Vocabulary
<u> </u>	Lesson 1 – Evaluate		
	LC: I can evaluate different types of Chi	ristmas cards	
	Lesson 2 – Explore		
	LC: I can identify different sliders and le	eavers	Mechanisms
	Lesson 3 – Develop Skills LC: I can create a model leaver with a p	partner	slider, lever, pivot, slot, bridge/guide, join
Intended Knowledge	- Children to problem solve	ai tilei	pull, push, up, down, straight, curve
Substantive	Lesson 4 – Design		forwards, backwards, design, make,
	LC: I can design a Christmas card		evaluate, user, purpose, ideas,
	Lesson 5 – Create Final Piece		design criteria, product, function
	LC: I can create a final piece		
	Lesson 6 – Evaluate		
	I can evaluate my final pieceSelect and use tools, explaining	their choices	I
	_	hanisms produce different types of	
Assessment Outcomes			
Assessment Outcomes	movement.		
Assessment Outcomes	 Explore and evaluate the use of 	f wheels and axles.	
Assessment Outcomes	Explore and evaluate the use or	f wheels and axles. n based on simple design criteria	
Assessment Outcomes Significant people/places	Explore and evaluate the use or		

Resources	https://www.youtube.com/watch?v=SinLvPGySmQ - Levers https://www.youtube.com/watch?v=1kC4uX2BoDw - Levers	
Examples of work		2
Examples Final Piece		

	DT Unit o Year 2 Spring		
Unit Structures	Prior learning (Retrieval)	Future learning	Common Misconceptions
Final piece: Create a Freestanding structure Matchsticks Slide Half of a card tube	Experience of using construction kits to build walls, towers and frameworks. Experience of using of basic tools e.g. scissors or hole punches with construction materials. Experience of different methods of joining card and paper.	 Design Generate ideas based on simple design criteria and their own experiences, explaining what they could make. Develop, model and communicate their ideas through talking, mock-ups and drawings. Make Plan by suggesting what to do next. Select and use tools, skills and techniques, explaining their choices. Select new and reclaimed materials and construction kits to build their structures. Use simple finishing techniques suitable for the structure they are creating. Evaluate Explore a range of existing freestanding structures in the school and local environment e.g. everyday products and buildings. Evaluate their product by discussing how well it works in relation to the purpose, the use and whether it meets the 	
National Curriculum Subject Content: Design Knowledge:	Key stage 1 Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment]. When designing and making, pupils should be taught to: Design design purposeful, functional, appealing products for themselves and other users based on design criteria generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics Evaluate explore and evaluate a range of existing products explore and evaluate a range of existing products evaluate their ideas and products against design criteria Technical knowledge build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. Know how to make freestanding structures stronger, stiffer and more stable.		
Knowledge Sequence:			Key Vocabulary
Intended Knowledge Substantive	structures in the world. - Look at a variety of objects e.g. tripod Q- Why do these objects have to How are they designed to be structures. Choose a task:	rong and stable?	Structures cut, fold, join, fix, structure, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic, purpose, function, names of shapes.

	- Make the strongest bridge between 2 chairs using only newspaper and		
	sticky tape. It must support the weight of a Mars bar.		
	- Make the strongest table using only newspaper and sticky tape. It		
	must support the weight of a book chosen by the teacher.		
	Q- What did you learn by doing this investigation?		
	Q- How did you strengthen or reinforce the structure?		
	Lesson 3 – Develop Skills		
	LC: I can use my knowledge when making structures		
	Lesson 4 – Design		
	LC: I can design a tower -using art straws, pasta or similar material Lesson 5 – Create Final Piece LC: I can make a free standing tower		
	Lesson 6 – Evaluate		
	LC: I can evaluate my free standing tower		
	Know how to make freestanding structures stronger, stiffer and more		
Assessment Outcomes	stable.		
Assessment Outcomes	 evaluate their product by discussing how well it works in relation to 		
	the purpose		
	Paris Zoological Park by Bernard Tschumi		
Significant people/places	HASCHER JEHLE Zoo architect		
Significant people/places	Walter Aubrey Thomas- Liver Building architect- Visit Liverpool		
	What makes bridges strong? https://www.youtube.com/watch?v=oVOnRPefcno		
_	Think like an engineer https://www.youtube.com/watch?v=RM04n0-		
Resources	QtNo&list=PLQcnqZlFrrTguqBh4CVO3fpijy 2qEvc1		
	Straw Towers https://www.youtube.com/watch?v=VuX 27HvHpU		
Examples of work			
Examples Final Piece	ENCINEERING CHALLENGE BUILDING TOWERS WITH STRAWS		

DT Unit of Work			
	Year 2 Summer -		I
Unit Structures	Prior learning (Retrieval)	Future learning	Common Misconceptions
Final piece: Food Preparing Fruit and vegetable	 Experience of common fruit and vegetables, undertaking sensory activities, (taste and smell). Experience of cutting soft fruit and vegetables using appropriate utensils. 	Design Design appealing products for a particular user based on simple design criteria. • Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. • Communicate these ideas through talk and drawings. Make • Use simple utensils and equipment to e.g. peel, cut, slice, squeeze, grate and chop safely. • Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to create a chosen product. Evaluate • Taste and evaluate a range of fruit and vegetables to determine the intended user's preferences. • Evaluate ideas and finished products against design criteria, including intended user and purpose	
Final piece: Textiles (Market Place) Binca design	 Explored and used different fabrics. Cut and joined fabrics with simple techniques. Thought about the user and purpose of products. 	 Design Generate, develop, model and communicate their ideas as appropriate through talking, drawing, templates, mock-ups and ICT Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and finishing. Select from and use textiles according to their characteristics. Make Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and finishing. Select from and use textiles according to their characteristics. Evaluate Explore and evaluate a range of existing textile products relevant to the project being undertaken. Evaluate their ideas throughout and their final products against original design criteria. Design a functional and appealing product for a chosen user and purpose based on simple design criteria. 	
National Curriculum Subject Content:	Key stage 1 Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment]. When designing and making, pupils should be taught to: Design design purposeful, functional, appealing products for themselves and other users based on design criteria generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics Evaluate explore and evaluate a range of existing products evaluate their ideas and products against design criteria Technical knowledge		

build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

Technical knowledge

Design Knowledge Food: Design Knowledge Textiles:	Cooking and nutrition As part of their work with food, pupils should be taught how to cook and apply eating. Instilling a love of cooking in pupils will also open a door to one of the grunder Learning how to cook is a crucial life skill that enables pupils to feed themselves and in later life. Pupils should be taught to: Key stage 1 use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from. Understand where a range of fruit and vegetables come from e.g. farme Understand and use basic principles of a healthy and varied diet to prep Know and use technical and sensory vocabulary relevant to the project. Understand how simple 3-D textile products are made, using a template Understand how to join fabrics using different techniques e.g. running so the standard of the project of the pro	d or grown at home. are dishes. to create two identical shapes. titch, glue, over stitch, stapling.	
Vnoudedge Seguence	Know and use technical vocabulary relevant to the project.	Kov Vocahulani	
Intended Knowledge Substantive Food	Lesson 1 — Explore LC: I can identify what makes up a balanced diet Healthy Eating: An introduction for children aged 5-11 videos Follow on videos discuss different food groups: Foods we need to eat less often Starchy Carbohydrates Protein Fruit & Vegetables Dairy Lesson 2 — Evaluate LC: I can evaluate a variety of fruit/vegetable snacks Sort pictures of food discuss choices Lesson 3 — Develop Skills LC: I can explore healthy choices through my senses Children taste a variety of healthy choices and discuss what they would like in their final product Discuss including a range of foods including treats and the importance of a balanced diet Lesson 4 — Design LC: I can designed a healthy snack Lesson 5 — Create Final Piece LC: I can make a healthy snack Lesson 6 — Evaluate LC: I can evaluate my healthy snack	Food Names of fruit and vegetables, utensils and equipment, sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard, flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning, investigating tasting, arranging, popular, design, evaluate, criteria	
Assessment Outcomes	 Use simple utensils and equipment (including measuring) safely Explore a variety of fruit and vegetables and describe the ingredients I am using. Evaluate ideas and finished products against design criteria including intended user and purpose. 		
Significant people/places	Clarissa Dickson- British Chef		
Resources	Healthy Eating: An introduction for children aged 5-11 https://www.youtube.com/watch?v=mMHVEFWNLMc		
Examples of work			
Examples Final Piece			