



Textiles (Fastenings) Book Cover

	Year Year 3 / 4	Term	Autumn 2	S	ubject [Design Technology		
National Curriculum	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose,							
Coverage	aimed at particular individuals or groups							
	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded							
	diagrams, prototypes, pattern pieces and computer aided design							
	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately							
	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics							
	Investigate and analyse a range of existing products							
Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work								
	ŀ	(ey Skills				Key Knowledge		
Designing and making a templa	Designing and making a template from an book sleeve and applying individual design criteria.							
Following design criteria to create a book sleeve.								
Selecting and cutting fabrics with ease using fabric scissors.						Why are there different types of fastenings?		
Tring knots with greater independence.								
Sewing cross stitch to join fabr	ic.					what is a mock up?		
Decorating fabric using appliqu	ıé.					What is the number of a factoring?		
Completing design ideas with stuffing and sewing the edges.						what is the purpose of a fastening?		
Evaluating an end product and								
Year 4	Year 4							
Writing design criteria for a product, articulating decisions made.								
Making and testing a paper ter	Making and testing a namer template with accuracy and in keeping with the design criteria							
Measuring, marking and cutting fabric using a paper template.								
Selecting a stitch style to join fabric.								
Sewing neatly using small regular stitches.								
Incorporating a fastening to a design.								
Testing and evaluating an end product against the original design criteria.								
Previous know	wledge	-	Current Year			Future learning		
Year 1 /2	Identify the features, benefits and Year !				Year 5/	6		
 Join fabrics together u 	ing pins, staples or disadvantages of a range of fastening types.					-		
giue.	Write design criteria and design a sleeve that satisfies the criteria					Design a stuffed toy, considering the main		
Design a pupper and use a template. Satisfies the criteria. Make a template for their book cleave.						component snapes of their toy.		
				ok sieeve.				



Vocabulary: Aesthetic, Assemble, Fastening, Mock-up, Net, Running Stitch, Book Sleeve

How can you make a sign stand out and catch attention? - Electrical Torches

	Year	3/4	Term	Spring	2	Subject DT
National Curriculum Coverage	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups					
	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer aided design					
	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately					
	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics					
	Investigate and analyse a range of existing products					
	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work					
	Understand how key events and individuals in design and technology have helped shape the world					
	Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]					
Key Skills						Key Knowledge
Carrying out research.			V	Vhat is an	electric	cal conductor?
Label and explain the parts of a torch.						
Carefully begin to think about what might change on the product if components		V	Vhat are e	lectrica	I insulators?	
are altered.						
Fitting an electrical component.			V	Vhat do ba	atteries	contain?
Learning ways to give the final product a higher quality finish. Testing their product and giving feedback to others and themselves. Ensuring that the design specification has been achieved.			v	Vhat is ne	eded fo	or electricity to flow through a circuit?





Year 4 Designing a torch, giving consideration to the target aud design and success criteria focusing on features of indivi Making a torch with a working electrical circuit and swite Using appropriate equipment to cut and attach materials Assembling a torch according to the design and success of Evaluating electrical products. Testing and evaluating the success of a final product.	ience and creating both dual design ideas. ch. s. criteria.	What is a switch and what i	can it be used for?
Previous knowledge 1/2 • Science- Materials	 Currer Designing a torch, target audience ar success criteria foo individual design id Making a torch wit circuit and switch. Using appropriate attach materials. Assembling a torch and success criteri Evaluating electric 	nt Year giving consideration to the ad creating both design and cusing on features of deas. th a working electrical equipment to cut and n according to the design a. al products.	 Future learning 5 /6 Designing a steady hand game, identifying and naming the components required. Drawing a design from three different perspectives. Generating ideas through sketching and discussion. Modelling ideas through prototypes. Understanding the purpose of products (toys), including what is meant by 'fit for purpose' and 'form over function'. Constructing a stable base for a game. Accurately cutting, folding and assembling a net. Decorating the base of the game to a high-quality finish. Making and testing a circuit. Incorporating a circuit into a base. Testing their own and others' finished games, identifying what went well and making suggestions for improvement. Gathering images and information about existing children's toys. Analysing a selection of existing children's toys
Vocabulary: Battery, Bulb, Buzzer, Conductor, Circuit, Ele	ectricity, Insulator, Switch		





How can I make a structure strong?

	Ye	ar 3 / 4	Ferm Summer 2	Subjec	t DT	
National Curriculum Coverage	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups					
	Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer aided design					
	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately					
	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics					
	Investigate and analyse a range of existing products					
	Evaluate their ideas and	products against their o	wn design criteria ar	id consider th	ne views of others to improve their work	
	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures					
	Key Skills				Key Knowledge	
Key SkillsYear 3Designing a pavilion with key features to appeal to a specific person/purpose.Drawing and labelling a pavilion design using 2D shapes.Experimenting with free-standing frame structures.Creating special features for individual designs.Exploring with different materials to reinforce corners.Evaluating own work and the work of others based on the aesthetic of the finishedproduct and in comparison to the original design.Suggesting points for modification of the individual designs.Year 4Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect.Building frame structures designed to support weight.Creating a range of different shaped frame structures.Making a variety of free-standing frame structures of different shapes and sizes.Selecting appropriate materials to build a strong structure and for the cladding.Reinforcing corners to strengthen a structure.Creating a design in accordance with a plan.Learning to create different textural effects with materials.		What is a fram What is a free s What is a pavil What is claddir Can you explain	e structure? standing stru ion? ng used for? n what the te	cture? erm aesthetic means?		
Previous kno	wledge	Cu	rrent Year		Future learning	





TARLE STOR							
 R/1 Learn how to select appropriate materials for a purpose Test and investigate which materials will float or sink. Understand how different shapes affect the way an object will move. Sketch and design a boat for purpose. Testing their end product in water and relecting on what could have been improved on the design. 	 Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect. Building frame structures designed to support weight. Creating a range of different shaped frame structures. Making a variety of free-standing frame structures of different shapes and sizes. Selecting appropriate materials to build a strong structure and for the cladding. Reinforcing corners to strengthen a structure. Creating a design in accordance with a plan. Learning to create different textural effects with materials. 	 5 /6 Designing a playground featuring a variety of different structures, giving consideration to how the structures will be used. Considering effective and ineffective designs. Building a range of play apparatus structures drawing upon new and prior knowledge of structures. Measuring, marking and cutting wood to create a range of structures. Using a range of materials to reinforce and add decoration to structures. Improving a design plan based on peer evaluation. Testing and adapting a design to improve it as it is developed. Identifying what makes a successful structure 					
Vocabulary: Aesthetic, Cladding, Pavilion, Reinforce, Structure, Stable							