Curriculum Overview Design Technology

Design and Technology: essential skills and knowledge					
Strand	Key Stage One	Lower Key Stage Two	Upper Key Stage Two		
Design: Design criteria	Design purposeful, functional, appealing products for themselves and other users based on design criteria.	Conduct research from potential users of a product to inform, adapt or change the design of a product.	Use research to develop innovative, functional, and are aimed at partic		
	 Dinosaur Discovery Roll Up, Roll Up! Twist and Shout 	 It's Not Fair Merlin Musical Express 	 Bloodhound Blitz Digital Dragons' D 		
	 <u>Dinosaur discovery: theme overview</u> <u>Roll Up, Roll Up: theme overview (PDF)</u> <u>Twist and Shout: theme overview</u> 	 <u>It's Not Fair: theme overview</u> <u>Merlin: theme overview</u> <u>Musical Express: theme overview</u> 	 <u>Blitz: theme overvi</u> <u>Bloodhound: them</u> <u>Digital Dragons' De</u> 		
Design: Representing design ideas	Generate, develop, model and communicate ideas through talking, drawing, templates, mock-ups or digital representation.	Generate, develop, model and communicate design ideas through discussion and annotated sketches.	Generate, develop, mod cross-sectional and exp or computer-aided desi		
	ShipwreckRoll Up, Roll Up!Worth Repeating	TrailblazersZeusMusical Express	 Bloodhound Galaxy Quest Amazing Islands Digital Dragons' D 		
	 <u>Roll Up, Roll Up: theme overview (PDF)</u> <u>Shipwreck: theme overview</u> <u>Worth Repeating: theme overview</u> 	 <u>Musical Express: theme overview</u> <u>Trailblazers: theme overview</u> <u>Zeus: theme overview</u> 	 <u>Amazing Islands: t</u> <u>Bloodhound: them</u> <u>Digital Dragons' De</u> <u>Galaxy Quest: then</u> 		
Make:	Select, explain and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing)	Select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), developing in accuracy and appropriateness of tool selection.	Select, explain and accu		
Tools	Roll Up, Roll Up!Shipwreck	 Prehistoric Planet Musical Express	• Bloodhound		
	 <u>Roll Up, Roll Up: theme overview (PDF)</u> <u>Shipwreck: theme overview</u> 	 <u>Musical Express: theme overview</u> <u>Prehistoric Planet: Theme overview</u> 	• <u>Bloodhound: them</u>		
Make: Materials	Select from and use a range of materials and components, including construction materials and textiles, according to their characteristics.	Select from and use a wide range of materials and components, including construction materials and textiles, beginning to consider material characteristics and appropriateness for task.	Select, use and combin functional properties a		
	 Dinosaur Discovery Roll Up, Roll Up! Creepy Crawlies Twist and Shoutt 	CatastropheMerlinZeus	BloodhoundMummifiedWhat the Dickens?		
	 <u>Creepy Crawlies: theme overview</u> <u>Dinosaur discovery: theme overview</u> <u>Roll Up, Roll Up: theme overview (PDF)</u> 	 <u>Catastrophe: theme overview</u> <u>Merlin: theme overview</u> <u>Zeus: theme overview</u> 	 <u>Bloodhound: them</u> <u>Mummified: theme</u> <u>What the Dickens:</u> 		



op design criteria to inform the design of l, appealing products that are fit for purpose ticular audience.

Den

<u>view</u> me overview Den: theme overview

nodel and communicate design ideas through exploded diagrams, prototypes, pattern pieces esign.

Den

<u>: theme overview</u> eme overview Den: theme overview eme overview

ccurately use tools for specific tasks.

<u>me overview</u>

oine a range of materials according to their s and aesthetic qualities.

s?

e<u>me overview</u> <u>me overview</u> as: theme overview

Curriculum Overview Design Technology

	• <u>Twist and Shout: theme overview</u>		
Malar	Explore a broad range of food and food types beginning and simply prepare food for cooking. i.e. peel, chop and grate.	Measure, weigh and combine a range of ingredients to cook specific dishes.	Combine accurately me techniques, i.e. mixing specific and own dishes
Make: Food preparation and cooking	• Brilliant Bodies	It's Not FairMerlinSavage Settlers	• Blitz
	<u>Brilliant Bodies: theme overview</u>	 <u>It's Not Fair: theme overview</u> <u>Merlin: theme overview</u> <u>Savage Settlers: theme overview</u> 	• <u>Blitz: theme overvi</u>
Evaluate: Existing products	Explore and evaluate a range of existing products.	Consider how existing products are suitable to their uses and how they could be developed to make them more useful.	Investigate and analyse audience and purpose.
	Blast from the PastRoll Up, Roll Up!	TrailblazersMusical ExpressSavage Settlers	Galaxy QuestBloodhoundDigital Dragons' D
	 <u>Blast from the Past: theme overview</u> <u>Roll Up, Roll Up: theme overview (PDF)</u> 	 <u>Musical Express: theme overview</u> <u>Savage Settlers: theme overview</u> <u>Trailblazers: theme overview</u> 	 <u>Bloodhound: them</u> <u>Digital Dragons' De</u> <u>Galaxy Quest: then</u>
Evaluate: Own products	Compare ideas and products with design criteria explaining how closely a final product matches the design criteria or plans.	^g Evaluate ideas and products against own design criteria and consider the views of others to make improvements.	Evaluate ideas and pro result on ongoing evalu
	Roll Up, Roll Up!Amazon	TrailblazersIt's Not Fair	BloodhoundDigital Dragons' D
	 <u>Amazon: theme overview</u> <u>Roll Up</u>, <u>Roll Up</u>: theme overview (PDF) 	 <u>It's Not Fair: theme overview</u> <u>Trailblazers: theme overview</u> 	 <u>Bloodhound: them</u> <u>Digital Dragons' Description</u>
Evaluate: Impact			Appreciate how key eve technology have helped
			BloodhoundDigital Dragons' D
			 <u>Bloodhound: them</u> <u>Digital Dragons' Description</u>
Technical knowledge: Joining and structures	Build structures, exploring how they can be made stronger stiffer and more stable.	Develop joining techniques such as using glue guns, struts and running stitches to strengthen, stiffen and reinforce structures of increasing complexity.	Apply understanding o more complex structur
	ShipwreckRoll Up, Roll Up!	Savage SettlersCatastrophe	What the Dickens?Bloodhound
	 <u>Roll Up, Roll Up: theme overview (PDF)</u> <u>Shipwreck: theme overview</u> 	 <u>Catastrophe: theme overview</u> <u>Savage Settlers: theme overview</u> 	 <u>Bloodhound: them</u> <u>What the Dickens:</u>



measured ingredients using a range of ag and kneading, to create and improve nes.

view

yse a range of existing products considering se.

Den

eme overview Den: theme overview leme overview

roducts demonstrating modifications as a luation.

Den

eme overview Den: theme overview

events and individuals in design and ped shape the world.

Den

eme overview Den: theme overview

of how to strengthen, stiffen and reinforce ures.

s?

<u>me overview</u> s: theme overview

Curriculum Overview Design Technology

		Explore and use mechanisms (for example, levers, sliders, wheels and axles), in products.		Understand and use m gears, pulleys, cams, le
Technical knowledge: Mechanisms	• Roll Up, Roll Up!		BloodhoundMummified	
		• <u>Roll Up, Roll Up: theme overview (PDF)</u>		 <u>Bloodhound: them</u> <u>Mummified: them</u>
ן	Technical knowledge: Electricity			Understand and use ele series circuits incorpor
F			Taught alongside Science in Year 4	• Bloodhound
				Bloodhound: them



mechanical systems in products (for example, levers and linkages).

eme overview eme overview

electrical systems in products (for example, porating switches, bulbs, buzzers and motors).

eme overview