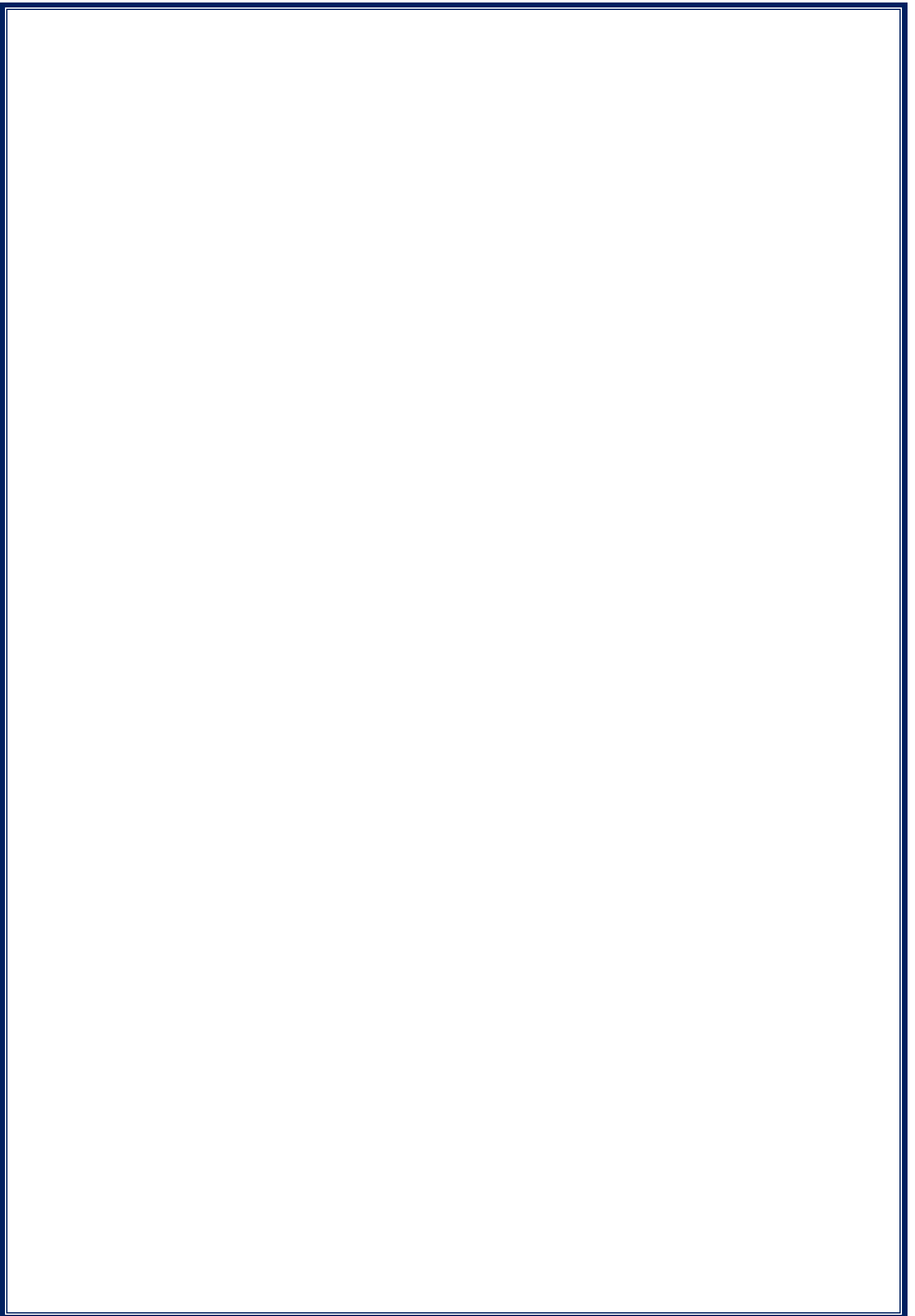







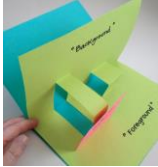


ARK Franklin Primary Academy





DT Curriculum




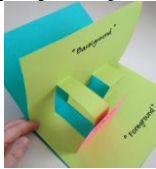
DT Overview

		Spring Term	
		Design Technology	
		Spring 1	Spring 2
Year 1			Structures <i>Playground Equipment</i> 
Year 2	Mechanisms <i>Wind-up Toys</i> 		
Year 3			Structures <i>Photo frames</i> 
Year 4	Mechanisms <i>Pop-up Storybooks</i> 		
Year 5			Food <i>Baking Bread</i> 
Year 6	Electrical <i>Building a Buggy</i> 		



KS1

	Spring Term Year 1		Spring Term Year 2	
	Spring 1	Spring 2	Spring 1	Spring 2
Overview		Structures <i>Playground Equipment</i> 	Mechanisms <i>Wind-up Toys</i> 	
Final Outcome	<i>Design and make a model of an item of playground equipment</i>		<i>Create a toy with a winding mechanism out of reclaimed materials</i>	
Key Skills	<i>Relate the way things work to their intended purpose</i> <i>Examine materials involved in the construction of an object</i> <i>Assemble, join and combine materials</i> <i>Recognise shapes and application in simple structures</i> <i>Make models which reflect ideas</i> <i>Evaluate products noting strengths and possible changes</i>		<i>Understand simple winding mechanisms</i> <i>Follow instructions of construction kits</i> <i>Use tools accurately and safely</i> <i>Assembly, join and combine materials</i> <i>Create stable structures</i> <i>Evaluation of completed work based on agreed criteria</i>	
Key Vocab	<i>model</i> <i>join</i> <i>surface</i> <i>framework</i> <i>equipment</i> <i>user</i>		<i>mechanism</i> <i>stable</i> <i>fixture</i> <i>axle</i> <i>connecting</i> <i>attaching</i>	
Required Resources	<i>Pipe cleaners, lolly sticks, glue, straws</i>		<i>Mechanism examples, reclaimed materials</i>	

LKS2

	Spring Term Year 3		Spring Term Year 4	
	Spring 1	Spring 1	Spring 2	Spring 2
Overview		Structures <i>Photo frames</i> 	Mechanisms <i>Pop-up Storybooks</i> 	
Final Outcome	<i>Design, create and decorate a free-standing photograph frame adapted for a particular user</i>		<i>Design, create and evaluate a pop-up story book with a number of different mechanisms that is adapted from a known story</i>	
Key Skills	<i>Develop an understanding of stable structures</i> <i>Apply use of triangulation in structures</i> <i>Disassemble and evaluate products</i> <i>Strengthen materials through a variety of strategies</i> <i>Undertake a variety of joining methods</i>		<i>Use tools safely to design and make pages</i> <i>Incorporate levers and linkages</i> <i>Create simple mechanisms</i> <i>Incorporate movement</i> <i>Plan for production</i> <i>Evaluate systematically and make on-going modifications</i>	
Key Vocab	<i>component</i> <i>layering</i> <i>stable</i> <i>free-standing</i> <i>sturdy</i> <i>user</i>		<i>pivot</i> <i>adhesive</i> <i>scoring</i> <i>temporary</i> <i>linear</i> <i>hinge</i>	
Required Resources	<i>Wood strips, corner triangles, plywood, saw, clamp, measuring rulers</i>		<i>Paper, card, glue, images, scissors</i>	

UKS2

	Spring Term		Spring Term	
	Year 5		Year 6	
	Spring 1	Spring 1	Spring 2	Spring 2
Overview		Food <i>Baking Bread</i> 	Electrical <i>Building a Buggy</i> 	
Final Outcome	<i>Create and evaluate a variety of different types of bread</i>		<i>Design and make a controllable, battery-powered toy vehicle using card, wood, found materials and a variety of mechanical and electrical components</i>	
Key Skills	<i>Follow detailed instructions</i> <i>Measure, weigh and organise ingredients accurately</i> <i>Apply rules of basic hygiene</i> <i>Examine how varying proportions affect a product</i> <i>Compare domestic and commercial processes for creation</i>		<i>Develop construction ideas by considering the needs of users</i> <i>Sketch and work with technical components</i> <i>Mark, measure and join materials with increasing accuracy</i> <i>Use a variety of tools with precision and care</i> <i>Use simple mechanisms to provide a transmission system</i> <i>Use simple electrical circuits</i>	
Key Vocab	<i>knead</i> <i>texture</i> <i>quantities</i> <i>hygiene</i> <i>dough</i> <i>bacteria</i>		<i>mechanism</i> <i>cam</i> <i>assemble</i> <i>annotation</i> <i>offset</i> <i>shaft</i>	
Required Resources	<i>Scales, measuring beakers, knives, mixing bowls, sieves, spoons, baking materials</i>		<i>Buggy nets, paper, card, plywood, wood strip, dowel, wheels, gears, rubber bands, electrical components, saw</i>	