

FENISCOWLES PRIMARY SCHOOL Striving for Excellence

DESIGN TECHNOLOGY YEAR 2 MODULE OVERVIEWS



Y2	Context	Design	Make	Evaluate	Technical Knowledge
Autumn	Structures Baby Bear's chair Using the tale of Goldilocks and the Three Bears as inspiration, children help poor Baby Bear by making him a brand new chair. When designing the chair, they consider his needs and what he likes and explore ways of building it so that it is a strong and stable structure and doesn't break again!	Generating and communicating ideas using sketching and modelling Learning about different types of structures, found in the natural world and in everyday objects	Making a structure according to design criteria Creating joints and structures from paper/card and tape	Exploring the features of structures Comparing the stability of different shapes Testing the strength of own structures Identifying the weakest part of a structure Evaluating the strength, stiffness and stability of own structure	Identifying natural and man- made structures Identifying when a structure is more or less stable than another Knowing that shapes and structures with wide, flat bases or legs are the most stable Understanding that the shape of a structure affects its strength Using the vocabulary: strength, stiffness and stability Knowing that materials can be manipulated to improve strength and stiffness Building a strong and stiff structure by folding paper

Spring	Mechanisms	Creating a class design	Making linkages using	Evaluating own designs	Learning that mechanisms
- F 0		criteria for a moving	card for levers and split	against design criteria	are a collection of moving
	Fairground wheel	monster	pins for pivots		parts that work together in a
	This unit brings together			Using peer feedback to	machine
	the children's knowledge	Designing a moving	Experimenting with	modify a final design	
	of structures and	monster for a specific	linkages adjusting the		Learning that there is an
	mechanisms. They design	audience in accordance	widths, lengths and	Evaluating different	input and output in a
	and create their own	with a design criteria	thicknesses of card used	designs	mechanism
	Ferris wheels, considering				
	how the different	Selecting a suitable	Cutting and assembling	Testing and adapting a	Identifying mechanisms in
	components fit together	linkage system to produce	components neatly	design	everyday objects
	so that their wheels	the desired motions			
	rotate and their structures	Designing a wheel	Selecting materials		Learning that a lever is
	stand freely. Pupils select	Selecting appropriate	according to their		something that turns on a
	appropriate materials and	materials based on their	characteristics		pivot
	develop their cutting and	properties			
	joining skills to create a		Following a design brief		Learning that a linkage is a
	final product.				system of levers that are
Summer	Mechanisms				connected by pivots
	Making a maning				Evaloring wheel mechanisms
	Making a moving monster				Exploring wheel mechanisms
	After learning the terms;				Learning how axels help
	pivot, lever and linkage,				wheels to move a vehicle
	children set to designing a				
	monster that will move				
	using a linkage				
	mechanism. After				
	practicing making linkages				
	of different types and				
	varying the materials they				
	use, children can also				
	bring their monster to life				
	with the gift of				
	movement.				