



Unit Planner – Design Technology Year: 1 Title: Moving Books

Unit Overview	Children will learn that pop up books contain features which have moving parts and that there are different types of mechanisms which control this. The children will create a book with 3 of the different mechanisms in a moving book.	
Prior Learning/ Links	EY – children will have read and seen pop up books.	
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
Key Questions: Which mechanism would you use to show a plane flying in the sky? Can you design a page which shows how a flower grows?	<ul style="list-style-type: none"> • Some books and pictures have moving parts. • Investigate famous pop up books and how they work. • For the parts to move they need a lever or a wheel. • To design a book the children must consider what design would be interesting for the reader, what tools and materials they will need and how they are going to put it together. • Children can choose their own equipment needed for their design. • To make the book work effectively only one picture can move on each page. • We can practise making mechanisms so the final product is good quality. • Children learn to evaluate their design and product using technical language; stiffer, stronger, 	Critical Evaluation To investigate current products in a practical way. To learn about famous inventors and the products they invented and why. Purpose/ Audience or Design Develop a clear idea of purpose and audience Design a product using simple sketches and explanations To present ideas to others using sketches and discussions Making/ Technological Knowledge Selecting tools and materials appropriate for tasks. <ul style="list-style-type: none"> - Explain choices made to construct a product based on characteristics Make product stronger, stiffer and more complex Safety and accuracy
Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive: Paper Card Split pin Wheel mechanism Lever mechanism Book Moving part Sliders	 STEM Nuffield design technology booklet ‘making a moving picture’ Trip to Manchester Airport (History Topic –Flight)	Moving books are a modern invention



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<p>Disciplinary: Plan Design Draw Sketch Test Prototype Product Effects Measure Evaluate Joining Shaping</p>		
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