

Design Technology – paper mechanisms

Year Two *Summer 1 2022



moving picture	imaginative
mechanism	invent
lever	moving
slider	sliding
pivot	creative
wheels	join
design	finish
create	template
evaluate	mock-up
card	prototype
material	function
paper	
design criteria	

By the end of this unit, you will be able to design, make and evaluate a pop-up book.

Important information



This unit is called 'Moving Pictures' and it will get your imaginations soaring as you think up exciting and inventive ways to bring your pictures to life through a variety of moving mechanisms. You will explore sliders, levers, pivots and wheel mechanisms and how they can be used to make different parts of a picture move.

KS1 - design purposeful, functional, appealing products for themselves and other users based on design criteria

KS1 - generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.

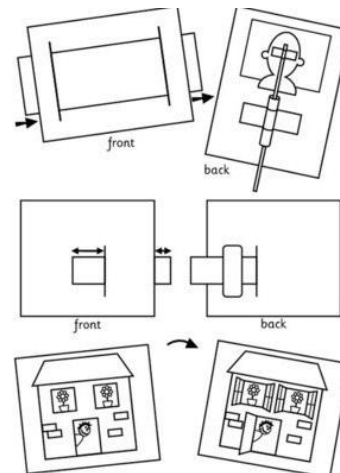
KS1 - select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]

KS1 - select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

KS1 - explore and evaluate a range of existing products

KS1 - evaluate their ideas and products against design criteria

KS1 - explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products



HOW TO MAKE A POP UP BOOK

Design Technology – paper mechanisms		By the end of this unit, you will be able to design, make and evaluate a pop-up book.			
Year Two *Summer 1 2022			Lesson	What will you learn	Learning Review
To be able to create a sliding mechanism.	<ul style="list-style-type: none">• Can you identify the direction of movement in a sliding mechanism?• Can you investigate different ways of making sliders?• Can you evaluate their work and identify areas for future development?	1	Children to find out what a moving mechanism is and how to create one. They will focus on slider mechanisms, recognising different types and how they work before using a character to create their own moving picture.		
To be able to use levers to create a moving mechanism	<ul style="list-style-type: none">• Do you understand the terms ‘lever’ and ‘pivot’?• Can you combine and join materials to make lever mechanisms?• Can you generate ideas for different ways of using lever mechanisms in moving pictures?	2	Children to find out what levers and pivots are and how to create this mechanism. They will be challenged to make this particular mechanism using a template, strips of card and some paper fasteners.		
To investigate and create wheel mechanisms.	<ul style="list-style-type: none">• Can you describe what a pivot is?• Can you cut out and join components to create a wheel mechanism?• Can you evaluate your work and identify areas for future development?	3	Children to find out what a wheel mechanism is and how to create one. They will create four different facial expressions for a person before joining the wheel mechanism together to create their moving picture.		
To be able to design a picture with a moving mechanism.	<ul style="list-style-type: none">• Can you discuss ideas for how you could incorporate moving mechanisms into pictures?• Can you draw on previous experience of moving mechanisms to design a moving picture?• Can you convey in pictures and words how you will create their moving picture?	4	Children to design a moving picture that has one of the previously learnt moving mechanisms. They will recap what they are and share their ideas to help create their designs.		
To be able to make a moving	<ul style="list-style-type: none">• Can you follow a design to create a picture with a moving mechanism?• Can you work safely with a variety of tools and materials to create a moving mechanism?• Can you identify ways in which you can improve their finished products?	5	Children to follow their designs to create their moving picture. They should think about the appropriate materials to use and how to work safely and carefully.		
To be able to evaluate a moving picture.	<ul style="list-style-type: none">• Can you evaluate your own moving pictures and say what you think and feel about them?• Can you identify what you have done well and suggest how you could make improvements?• Can you give your opinion about the work of other children and give positive feedback?	6	Children to share and demonstrate how their moving pictures work. They will then evaluate their own moving pictures using the worksheet provided.		