Mechanisms - The Great Fire of London (Y2)						
Prior Learning		Concepts				
 EYFS Junk Modelling. Can you remember any ways of joining materials? Year 1 materials Distinguish what materials would be used for what purpose. 		Design	A plan or drawing to show the look and function of a product.			
		Make	Form something by putting parts together and combining materials.			
		Evaluate	Establishing whether something was successful and how it could be improved.			
Key Vocabulary		Images and Techniques				
Mechanism	a system of parts working together in a machine; a piece of machinery.	Example of two different ways to fix wheels				
Movement	The act of moving.	Dowel or paper sticks used to	Cardboard box Wheel			
Axles	a rod or spindle (either fixed or rotating) passing through the centre of a wheel or group of wheels	make the axle Plastic tubing or straw				
Key Facts						
Simple mechanisms (wheels and axles) are used to make something move along a surface.		Loose fitting hole for axle, tightly fixed wheels	Tight fitting hole for axle, loosely fixed			
Wheels can be fixed to an axle or rotating.		Types of wheels	Plasticine or wheel's masking tape			
Vehicles have many different purposes. Fire engines are used to transport fire fighters and their equipment.						
Fire engines have changed over time. In Victorian times fire engines were made from wood. Now, they are made from metal. Fire engines have many different features like storage, hoses and ladders.		Wood/card/ Plastic MDF	Cotton reels Foam covered reels			

Mechanisms – The Lake District (Y4)					
Prior Learning		Concepts			
		Design	A plan or drawing to show the look and function of a product.		
		Make	Form something by putting parts together and combining materials.		
		Evaluate	Establishing whether something was successful and how it could be improved.		
Key Vocabulary		Images and Techniques			
Pivot	The central point, pin, or shaft on which a mechanism turns	plastic spoons polystyrene plastic plates			
Pulley	a wheel on an axle or shaft that is designed to support movement and change of direction	Test your water wheel by using a jug of water over a tub or bucket.			
Fastener	a device that closes or secures something.	bottles and cups plasticine sticky tape wooden ske	(C)		
Key Facts		plasticine sticky tape wooden sk			
		Rotation			

Mechanisms – Early Islamic Civilisation (Y6)						
Prior Learning		Concepts				
Year 2 – Mechanisms – What is an axel? How do wheels on a vehicle work? What makes them move? Year 3 – Mechanisms – What is a pivot? How does a pulley work? What materials and techniques can you use to fasten materials?		Design	A plan or drawing to show the look and function of a product.			
		Make	Form something by putting parts together and combining materials.			
		Evaluate	Establishing whether something was successful and how it could be improved.			
Key Vocabulary		Images and Techniques				
CAM	A rotating or sliding part in machinery designed to create movement.	THE PARTS OF AN AUTOMATON Automaton Box Rotating Axle Cam Follower C				
Follower	The peg or roller which follows the curvature of a cam and to which the motion of the cam is thereby directly communicated					



Automaton

1) Different types of CAMs such as round, snail and egg shaped will create different types of movement with the follower.

A moving mechanical device that follows a set of rules to

2) An automaton is a mechanical device.

create motion.

3) A mechanism is a mechanical device for doing something. It includes the idea of tools and machines, but is used for a wider range of objects, processes and idea. Simple modern mechanisms can be pulleys or CAMs.





