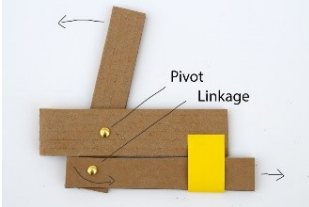
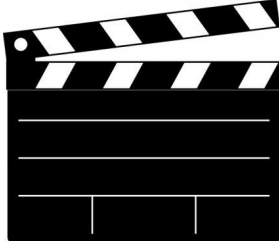
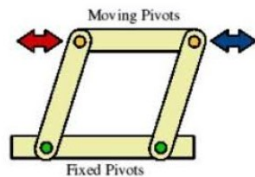


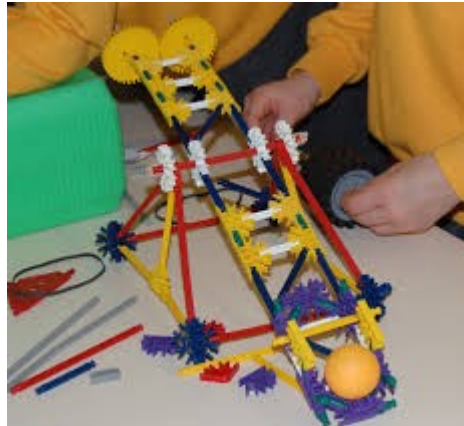


Subject: DT	Year group: 3 Term: Spring 2	Title: The Iron Man
What should I know? • How to use pictures and words to explain and develop their designs • How to develop more than one idea making different choices of materials • How to use the appropriate joins for different materials • How to use cardboard to create a simple lever • How to cut dowel using a hacksaw and a bench hook • How to evaluate my own and others' work 	Facts I will learn ... • When moving storyboards and clapper boards are used and their purposes • How levers and linkages are used to create moving storyboards and clapper boards • The names of the different parts of a lever system • The safety rules to follow when tools and equipment 	Key questions ... • Product - what is a moving story board? • Purpose – How might levers and linkages be used in a moving story board? • User - who is going to use my story board? • What is a linkage? • What is a pivot and what can I use to make one? • Is my idea/my friend's idea realistic? Can I/they achieve their design ideas? 
Key Skills...	Experiences that school will provide:	

- To plan a sequence of actions to make a product using annotated drawings and sketches
- To cut slots and internal shapes
- To select from a range of tools for cutting, shaping, joining and finishing
- To select from materials according to their functional properties e.g. lolly sticks/cards to make levers and linkages
- To investigate similar products to give starting points for a design
- To draw/sketch products to help analyse and understand how products are made
- To identify the strengths and weaknesses of their design ideas thinking about the purpose/user
- To use mechanical systems such as levers and linkages
- To use linkages to make movement larger or more varied



- The opportunity to investigate levers and linkages using construction equipment



Key vocab Definition

Internal	Located on the inside of the product.
Lever	A rigid bar which moves around a pivot.
Linkages	A linkage or linked lever system is a number of levers that are joined together.
Pivot	A rod or pin upon which another part rotates, swings, or moves back and forth.
Mechanism	A device used to create movement in a product.

Web links https://www.bbc.co.uk/bitesize/clips/zrp6n39 (How do levers work?)	Experiences that could be provided at home... • Explore levers and linkages that can be found at home • Make a level using recycled materials	
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