Brough Primary School – Curriculum Intention Plan 2021 - 2022



Subject: Design and Technology Year Group: Year 3/4		ology	Area of learning: Mechanisms - Using levers and linkages	
Links to previous work/Remember when	 KS1 experience of working with paper and card to make simple flaps and hinges. Experience of cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape. Builds on KS1 experience of making simple sliders. 			
Term	Year 1/2	Key Skills to be taught		
Spring 2022 What the children should know at the end of this series of lessons		 design crit Draw a full including s Choose th their suitat Order their Make Measure a Score and Join a rang usually cho Test their p adjustmen criteria. Pay attenti Evaluate Identify an that could Discuss wi of the brief purpose? Take part i 	y labelled diagram of their product, some measurements. e materials/tools they will use, based on bility for the task. main stages of making. and mark materials before cutting. fold paper/card accurately. ge of materials using a variety of methods, bosing the method most suited to the task. broduct as they work, making informed ts to ensure their product meets the design fon to the finishing of their product. d discuss the strengths of their product. y areas for development/ improvements	

Vocabulary

lever, linkage, loose pivot, fixed pivot, guide/bridge, direction, position, force, left, right, push, pull, up, down, forwards, backwards, in, out, straight, curve, slot, investigate,

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design, purpose, product, function, make, measure, cut, fold, join, fix, weak, strong, tools, template, discuss, compare, evaluate, improve, change, adapt.

Sequence of learning	Objectives and suggested details provided by subject leader.
1	 To investigate mechanisms in moving picture books, thinking about how well they work and the intended user of these. Children spend time exploring and evaluating a selection of moving picture and pop up books. Teacher to ask questions - Which part will move? How does the user make it move? How does the mechanism work?
2	 To practise making simple levers and linkages and begin to understand how they can be used to make something move. Teacher to model and demonstrate how a simple lever is made including the correct use of tools and materials. Use a premade teaching aid for the children to replicate. The lever must involve a linkage to provide progression from KS1.
3	 To design and plan my Easter card including a clear idea of which parts of my design will move and how. Children need to be clear how their mechanism will work and which parts they want to move. Discuss simple design criteria eg. it should work smoothly, it should make the right type of movement. Discuss the order in which the mechanism will be made.
4	 To create and assemble my greetings card to include an Easter design and a mechanism. Children choose their own tools and materials to create their Easter card making sure they follow their plan carefully. Chn will need to work on the mechanism separately, ensuring that it works before attaching the moving picture.
5	 To assess and evaluate my finished product. Children evaluate their final products against the design criteria saying how well the mechanism works and what they might do differently next time.

Learning Outcome/product

To design, make and evaluate an Easter card with moving parts to give to a family member this Easter.

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Assessment records	List only those children who have not achieved the expected outcomes.

Assessment records	List only those children who have exceeded the expected outcomes.			

End of unit assessment question	