	Lunt's Heath Primary	School - Design and	Technology Kno	ruledge Organiser
--	----------------------	---------------------	----------------	-------------------

Mechanisms Sliders and levers Year I Term: Autumn 2

What? (Key Knowledge)

Prior Learning

- Early experiences of working with paper and card to make simple flaps and hinges.
- Experience of simple cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape.

Designing

- Generate ideas based on simple design criteria and their own experiences, explaining what they could make.
- Develop, model and communicate their ideas through drawings and mock-ups with card and paper.

Making

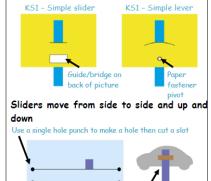
- Plan by suggesting what to do next.
- Select and use tools suitable for the task, explaining their choices, to cut, shape and join paper and card.
- Use simple finishing techniques suitable for the product they are creating.

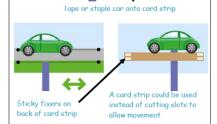
Evaluating

- Explore a range of existing books and everyday products that use simple sliders and levers.
- Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria.

Technical knowledge and understanding

- Explore and use sliders and levers.
- Understand that different mechanisms produce different types of movement.
- -Know and use technical vocabulary relevant to the project.





Possible Experiences

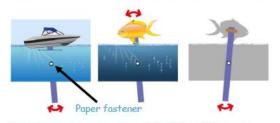
-Explore and evaluate a collection of books and everyday products that have moving parts, including those with levers and sliders.

-Develop knowledge and skills by replicating a slider and lever.
-Add pictures to own mechanisms.

What? (Key Vocabulary)				
Spelling	Definition/Sentence			
Mechanism	a device used to create movement in a			
	product.			
Lever	a rigid bar which moves around a pivot.			
	Levers are used in many everyday products.			
	In this project children will use card strips			
	for levers and paper fasteners for pivots.			
Slider	a rigid bar which moves backwards and			
	forwards along a straight line. Unlike a			
	lever, a slider does not have a pivot point.			
Slot	the hole through which a lever or slider is			
	placed to enable part of a picture to move.			
Guide or	a short card strip used to keep sliders in			
bridge	place and control movement.			
Pivot	the central point on which a mechanism			
	turns.			
Diagrams and Symbols				

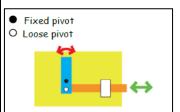
Design, make and evaluate a slider or lever.

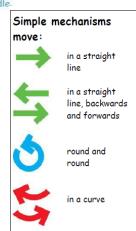
Levers can be used with or without a slot



A card strip is used as a lever. The fish and boat are glued to the lever which is used as a handle-







Lunt's Heath Primary School - Design and Technology Knowledge Organiser					
Mechanisms	Sliders and levers	Year I	Term: Autumn 2		