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Session 1:	Key V	ocabulary
Evaluating existing products		
	Evalua	ating existing products
<ul> <li>Evaluate a collection of books, toys, games and everyday products that have moving parts, including those with levers and sliders. (hungry hippos, bike brakes, seesaws)</li> </ul>	-	Evaluate a collection of books, toys, games and everyday products that have moving

Explore how they move and the impact of the mechanism.

## Medium Term Plan: Supporting Implementation of LTP/Progression Grid

- Explore the mechanisms that they use in everyday products in the classroom or the school grounds.
- Share job opportunities engineer, designer

Vocab: slider, lever, mechanism

### Session 2:

Practise skills

- Make a slider and lever prototype using paper (discuss that card would be more suitable as it is stronger and stiffer and will be used for the final product). Discuss the difference between the two mechanisms, consider how they move in different ways. Discuss the function of a split pin acting as a pivot point.
- Discuss why we need slot or a bridge/guide to support the slider or lever. Show the difference of having one/not having one.
- Explore: Why might we use a slider and not a lever? Or a lever and not a slider? How do they impact the movement and range of movement?
- Evaluate effectiveness of prototypes and assess any changes that need making when it comes to making their final product.

## Vocab: slider, lever, pivot, slot, bridge/guide, function, mechanism

Session 3:

Designing

- Create a design criterion that considers the user, purpose and appeal.
- Generate ideas based on simple design criteria and their own experiences, explaining what they could make: a card
- Develop, model and communicate their ideas through talking and annotated sketches. Children to label, the slider/lever, slot/bridge/guide and the pivot if applicable.
- Respect and tolerance Explore link with Christmas/sending greetings cards/Discuss respect and tolerance for those children who do not celebrate Christmas.
- Science link Recap knowledge of the seasons and features that are specific to winter that can be included in the design snow, snowmen, snowflakes etc
- RE link Recap Christianity knowledge of the nativity story, what characters could we include? angels, stars, sheep, shepherds, kings etc
- Create designs that suit the intended user and purpose by using drawings.
- Design: How do we design a winter card with a moving part?

Vocab: slider, lever, pivot, slot, bridge/guide, function, mechanism

### Session 4:

Making

- Make final product, a winter card with a moving part using card, paper, glue, scissors and split pins.
- Plan by suggesting what to do next.
- Select and use tools, skills and techniques, explaining their choices.
- Use simple finishing techniques suitable for the card they are creating e.g. the use of colours to make it more appealing, using their cutting skills to create accurate representation of features included.
- Resilience during the entire making process, discuss keeping on trying and never giving up even if the task gets tricky.

# Medium Term Plan: Supporting Implementation of LTP/Progression Grid

Vocab: slider, lever, pivot, slot, bridge/guide, function, mechanism

Session 5:

Evaluate

- Evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria.
- Consider if it is appealing.
- Evaluate: Does the slider/lever work effectively?
- Functionality: What impact does a slider or lever have on the project?
- Honesty during the evaluation stages we discuss being honest with ourselves (self-reflection) and others to ensure we can improve ourselves and our work

Vocab: slider, lever, evaluate, appeal

Future learning this content supports: LKS2 – Mechanisms – levers and linkages.

UKS2 – Mechanisms – pulleys and gears.