

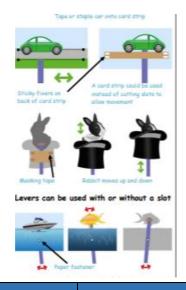
Year One Subject DT — Enchanted Forest Topic — Sliders and levers

Key Facts

- Function: Sliders and levers are used to create movement and change in a design. They have a specific function and are designed to perform a certain task.
- Design Process: The design process involves identifying a problem, generating ideas, creating a prototype, testing and evaluating the prototype, and refining the design based on feedback.
- Materials: Different materials can be used to create sliders and levers, and the choice of material can affect the function and durability of the design.
- Creativity: Design technology allows for creativity and innovation, as students are encouraged to come up with their own ideas and solutions to problems.

Guide/bridge on back of picture liders move from side to side and up and own lise a single hole punch to make a hale then cut a slot

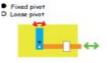
Designers/styles



As an enhancement to this project children could add flags to their moving pictures. Some children may find flags, which can be used to make a picture appear and disappear, easier to make than levers or sliders.



where children have a orticularly good understanding. I levers and sliders in Key Stage they could be introduced to the implest lever and linkings achieves well as Key Stage 2. His will introduce them to the lea of loose and fixed pivots.



Key Learning:

- To understand what sliders and levers are
- To identify sliders and levers in everyday objects
- To design and create simple sliders and levers
- To use sliders and levers to create movement and change in a design

Prior Learning:

- Basic construction techniques and materials through activities such as building with blocks, creating structures with play dough, and using simple tools such as scissors and glue.
- Cause-and-effect relationships by manipulating objects and observing the outcomes.

Books for support/ Enrichment Opportunities:

BBC Bitesize: What are sliders and levers? https://www.bbc.co.uk/bitesize/topics/zt7xk2p/articles/zpbdpbk

Teaching Ideas: Design and make a slider https://www.teachingideas.co.uk/designandtechnology/design-and-make-a-slider

Twinkl: Sliders and Levers Design Activity Sheet https://www.twinkl.co.uk/resource/t-t-5016-sliders-and-levers-design-activity-sheet

YouTube: How do sliders work?

https://www.youtube.com/watch?v=kgFbq-4q_8g

Subject Specific Vocabulary	
Key word	Definition
Bridge	a short card strip used to keep sliders in place and control movement.
Design	a plan or drawing produced to show the look and function of an object
Guide	a short card strip used to keep sliders in place and control movement.
Lever	a rigid bar that pivots around a fixed point, used to move a heavy or firmly fixed load
Material	substances used to make something
Mechanism	A device used to create movement in a product
Movement	a change in position or orientation
Prototype	a first or preliminary model of something
Slider	a moving part that slides back and forth along a track or groove
Slot	the hole through which a lever or slider is placed to enable a part of a picture to move.