

Year: 1 Program of Study: Mechanisms – Sliders and Levers

N.C POS:

- *Design purposeful, functional, appealing products for themselves and other users based on design criteria.*
- *Generate, develop, model and communicate their ideas through drawing and mock-ups.*
- *Select from and use a range of tools and equipment to perform practical tasks [for example cutting, shaping, joining and finishing].*
- *Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.*
- *Explore and evaluate a range of existing products.*
- *Evaluate their ideas and products against design criteria.*
- *Explore and use mechanisms [for example levers, sliders, wheels and axles], in their products.*

Concept: technology, impact, legacy, change, inventions, innovation, application, cause and effect.

Key Vocabulary: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design criteria, product, function.

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.

Core Knowledge- non-negotiable

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, 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.

Wider Influences

- Festivals and celebrations
- Traditional tales
- Nursery rhymes
- History-based topic
- Geography-based topic
- Science-based topic.

Enduring 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.