

## Parsonage Farm Nursery and Infant School

Year 1

Design and Technology - Mechanisms

Autumn 2

### Knowledge

- ❖ Mechanisms are the part of something that makes it work.
- ❖ Mechanisms are all around us!
- ❖ Most objects that help us are made up of different mechanisms.
- ❖ Sliders and levers are mechanisms that make things move.
- ❖ Sliders help to move things from side to side and up and down.
- ❖ Levers make things move in a curve.
- ❖ Books can have moving parts in them such as levers, sliders, wheels and pop up parts which you can move in different directions.
- ❖ You can strengthen your mechanism so that it is robust. You can do this by using stronger, stiffer materials.



### Safeguarding

- ❖ Follow teachers cutting instructions carefully.
- ❖ Tie back long hair.
- ❖ Hold scissors round the closed blades, facing down.

### Prior Knowledge (Year R)

- ❖ Explain what they are making and the materials they are using.
- ❖ Select and name the tools needed.
- ❖ Begin to assemble, join and combine materials.
- ❖ Say what they like and dislike about what they have made

### Skills

- ❖ Use scissors safely to cut out components.
- ❖ Join materials in different ways safely e.g. glue, tape, split pins
- ❖ Design a moving picture which includes mechanisms they have learnt how to make, following a design criteria.
- ❖ Make a mock-up of their design using paper, testing different mechanisms and joining techniques.
- ❖ Use a range of tools and equipment to perform practical tasks accurately. Select and use tools suitable for the task, explaining their choices
- ❖ Use simple finishing techniques suitable for the product they are creating
- ❖ Evaluate their finished product against the design criteria.

### Key Vocabulary

- ❖ mechanism
- ❖ slider
- ❖ lever
- ❖ slot
- ❖ curve
- ❖ pivot
- ❖ design
- ❖ make
- ❖ evaluate
- ❖ join
- ❖ slot

