



# Linked learning theme: My Life, My World

Autumn term, Year 4

## DT – Pop-up books

### Prior knowledge

In KS1 and Year 3, children have created different structures. This is the first time they are using mechanisms for linkages.

### Core knowledge

- There are different kinds of pop-up mechanisms (v-folds and square tabs), and linkages that can be used to make things pop-up or move in cards or pages of a book.
- Linkages join parts together in order to make them move.
- Design criteria set out what is to be achieved for an intended purpose.

### Key skills

- Investigate and evaluate existing products with pop-up systems.
- Measure, mark out, cut and shape materials, using appropriate tools, equipment and techniques.
- Join materials accurately.
- Use simple mechanisms to produce different types of pop-up and moving parts.
- Communicate design ideas in annotated drawings.
- Develop a clear plan of what has to be done and how this will be achieved.
- Evaluate ideas as they develop, make improvements and assess against the original design criteria.

### Vocabulary

pop-up	measure	design
v-fold	cut and join	annotated drawing
tab mechanism	materials	design criteria
linkages	accurate	evaluate

### Learning outcomes

- I can evaluate existing products to inform the design process.
- I can identify the needs of the user.
- I can develop more than one design or adaptation of an initial design.
- I can record ideas and plan using annotated sketches.
- I can perform practical tasks accurately.
- I can plan the stages of the making process.
- I can discuss how well the finished product meets the design criteria.
- I can consider and explain how the finished product could be improved.
- I can use mechanical systems (linkages) to make things move.