



Linked learning theme: Victorians

Autumn term, Year 5

DT – Victorian toys (Construction-cams)

Prior knowledge

In Year 3, children have made levers to make a launching product move. They have used saws and glue guns for this. In Year 4, children have used linkages to make parts move within a pop-up book.

Core knowledge

- Cams are a type of mechanical system.
- Turning the handle results in up and down movement.

Key Skills

- Select and use a wide range of tools and materials accurately.
- Use appropriate finishing techniques.
- Plan the sequence of work and list tools needed
- Identify strengths and weaknesses of design ideas.
- Explain how the finished product could be improved related to design criteria.

Vocabulary

Cams

Innovation Mechanism

Design decisions Functionality

Product Design Prototype

Problem Solution

Learning Outcomes

- I can select and use a wide range of tools and materials accurately.
- I can use appropriate finishing techniques.
- I can record ideas using annotated diagrams including exploded or cross-sectional diagrams.
- I can plan the sequence of work and list tools needed
- I can identify strengths and weaknesses of design ideas.
- I can explain how the finished product could be improved related to design criteria.
- I can identify user and purpose.