



## Mechanisms - Moving Toys

### Key links

Links to History unit - toys in the past focusing on Victorian period.

### Prior vocabulary

construct    plan    tools    join  
materials    review    build

### Learning sequence

Explore existing toys including examples of those from the past (Victorian)

Make a spring, hinge, slider and pivot mechanism

Design a Victorian Theatre

Produce a Victorian Theatre in using card including a hinge and pivot

How can I use a hinge and pivot mechanism to make a character move? How can I use a sliding mechanism?

### New Vocabulary

Mechanism - parts that work together to make something move.

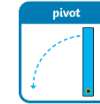


Hinge - something that connects two objects and lets them rotate

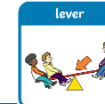


Sliding - A mechanism that moves forwards/backwards or side to side

Pivot - a fixed part that holds a lever in place as it turns.

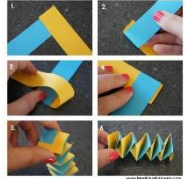


Lever - help us to lift up objects.



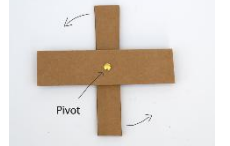
### Visual representations

Paper spring



Card hinge

Split pin



pivot

### Sticky learning

#### New Knowledge

- Know the characteristics and properties of some everyday materials.
- Know some simple types of mechanisms.
- Know some ways stabilise or strengthen a structure.
- Know appropriate ways to join materials e.g. glue paper, sew fabric

#### New Skills

- Explore what a product is, who it is for, how a product works and how it is used
- Explain what product they will be designing and making
- Describe what their product will be used for
- Discuss what their steps for making could be
- Represent ideas through talking and drawing
- Use a range of materials -construction materials and kits, mechanical components
- Select materials for their product based on their properties
- Choose suitable tools for making
- Use tools and materials showing an understanding of risk and safety
- Measure, mark, cut and shape materials and components
- Join, assemble and combine materials and components
- Talk about their design ideas and what they have made
- Make simple judgements of how the product met their design ideas

### Materials/tools



Cardboard



Split pin



Scissors



Glue



Pens, pencils, crayons