



## 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 hinge and pivot mechanisms

Design Jack in the box

Produce Jack in the box using card including a hinge and pivot

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

### New Vocabulary

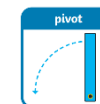
Mechanism - parts that work together to make something move.



Hinge - something that connects two objects and lets them rotate



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

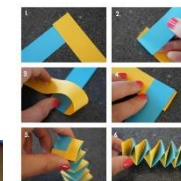


Lever - help us to lift up objects.



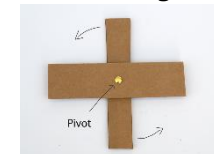
### Visual representations

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