

Knowledge Organiser

Year: 1

Subject: Design & Technology

Unit: Moving Pictures

Overview

Children will find out what a moving mechanism is and how to create one. They will focus on slider mechanisms, recognising different types and how they work before using a character to create their own moving picture. Children will discover what levers and pivots are and how to create this mechanism. Children will follow their designs to create their own moving picture. They will think about the appropriate materials to use and how to work safely and carefully.

What should I already know?

Vocabulary:

Design

- Can plan designs using large and small materials.

Make

- To build simple structures and sculptures
- To be able to do a simple stitch
- To be able apply simple decorations to a piece of fabric
- Can make a model using construction kits by following instructions and pictures

Working with tools

- Can cut shapes using scissors and modelling tools
- Know how to cut, scrunch, link, attach, rip, fringe, label, staple, curl, stick and fold.
- Can name and use different tools (tape, scissors, string, hole punch etc)

Evaluation

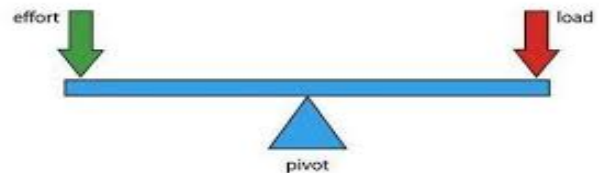
- Talk about what they have made and the materials that they have used.

Technical knowledge

- Know that construction means to make/build something

pivot

a central point on which something turns



lever

a bar used to push something heavy, which is on a pivot

mechanism

parts working together to make a something move

design

a plan or drawing of what something will look like before it is made

evaluate

to make a judgement

What will I know by the end of the unit?

<p>Design</p> <ul style="list-style-type: none"> • Can identify the key features of an existing product • Can generate ideas for different ways of using a lever mechanism • Can explain their own idea • Can make a plan of a picture with a mechanism using pictures and labels • Can make a list of materials they will need <p>Make</p> <ul style="list-style-type: none"> • Can cut out using scissors • Can follow a design to make a product which moves • Can combine and join materials to make a lever mechanisms • Can cut out and join components to make a wheel mechanism <p>Working with tools</p> <ul style="list-style-type: none"> • Join two pieces of paper/card together with glue • Can select appropriate tools and use them safely <p>Evaluate</p> <ul style="list-style-type: none"> • Can identify what has gone well with their product. • Can say how they could improve their work • Say what they like and feel about their own work • Can say what they like about others' work and give them positive feedback (I like.....about your product) <p>Technical Knowledge</p> <ul style="list-style-type: none"> • Know that a pivot is a central point that something moves around • Know that a lever is a bar that is attached to a pivot that is used to move a load • Know that mechanism moves because force is put on a lever which is attached to a pivot 	<p>materials</p> <p>demonstrate</p> <p>join</p> <p>identify</p> <p>diagram</p> <p>product</p> <p>attached</p> <p>disappear</p> <p>Movement</p> <p>component</p>	<p>things needed to make something else</p> <p>to show others</p> <p>to link two things together</p> <p>to find an example</p> <p>needed to make a design</p> <p>something that has been made</p> <p>joined or fastened to something else</p> <p>to not be seen</p> <p>an act of moving</p> <p>A part or element of a whole product</p>
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