

## Key Vocabulary

Structure

Base

Frame

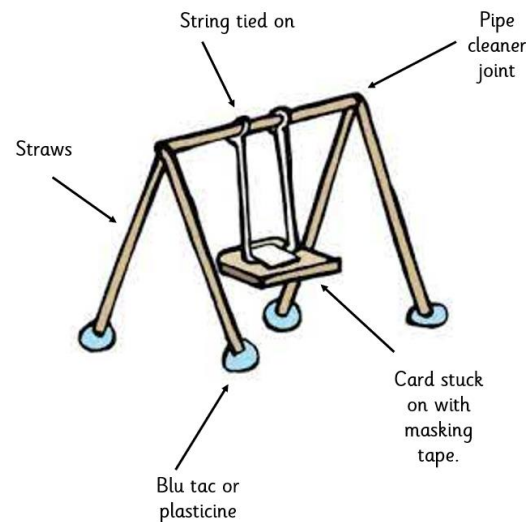
Shell

Join

Materials

Purpose

Evaluate



## Prior Learning

Children will have:

- Written a set of instructions.
- Followed a set of instructions.
- Created free-standing structures from Lego or recycling materials during continuous provision time.
- Gained some experience of designing, making and evaluating products for a specified user and purpose.
- Developed some cutting, joining and finishing skills with card.
- Evaluated their designs.

## Key Information

- Children will be designing a model of a free-standing playground equipment for children.
- Children will explore and evaluate a range of free-standing structures. Through observation, children will ask questions such as how can it stand by itself? What is making it strong?
- They will be able to draw an example of a free-standing structure, stating the purpose, and label the main parts such as base, frame, joints, as well as the materials they are made from.
- Children will use a range of materials to make their free-standing structure using their own design and ideas and criteria. After, they will evaluate it.

## Key Skills

- Generate initial ideas and simple design criteria through talking and using own experiences.
- Develop and communicate ideas through drawings and mock-ups.
- Select from and use a range of tools and equipment to perform practical tasks such as cutting to create joints.
- Select from and use a range of materials and components such as paper, card, plastic and wood according to their characteristics.
- Explore and evaluate a range of free-standing structures.
- Evaluate their ideas throughout and their products against original criteria.
- Know and use technical vocabulary relevant to the project.