

# Playground Equipment: Grade 1

## Understanding Structures and Mechanisms - Materials, Objects, and Everyday Structures

### Introduction: Big Ideas

Everyday structures are used to hold something, cross over something, provide protection, or provide recreation. Everyday structures incorporate identifiable shapes and patterns.

### Prior Knowledge and Skills Students will need to be familiar with in order to complete this activity:

- Measuring
- Cutting, gluing, fastening
- 2-D shapes and 3-D figures

**Materials:** Hack saw, mitre box, carpenter's glue, low temperature glue guns and glue, cardboard, 1 x 1 cm basswood, craft sticks, gussets, joiners, crayons, paint, stickers, pencils, markers, found materials (e.g., toilet paper rolls, pipe cleaners, lids, spools, corks, etc.)

### Expectations:

#### Overall

- Design and make structures that meet a specific need

#### Specific

- Design and make different structures using concrete materials and explain the function of the structure
- Ask questions about and identify needs or problems related to structures in their immediate environment, and explore possible answers and solutions
- Plan investigations to answer some of these questions or solve some of these problems
- Use appropriate natural and manufactured materials to make structures
- Select appropriate tools and utensils
- Use tools appropriately when joining and shaping various materials

### Task Description:

You are a builder who has been asked by the town council to build a playground structure that serves the community.

You will create a model of a piece of playground equipment using at least one simple frame and connecting pieces made from 1 cm X 1 cm basswood, craft sticks, and other found materials.

You will display your playground equipment on a large piece of paper representing a map of your playground, including landscaping (e.g., trees, bushes, ponds) and pathways.

### Evaluation and Assessment:

#### Evidence of Learning

- Model of structure and display

#### Criteria

- Safe and accurate use of tools
- Appropriate use of tools and materials
- Model stands on its own
- Sides are straight
- Parts of model move as intended

**Note:** This is a sample of a student's playground structure design that could be made.

