



St Leo's and Southmead
Catholic Nursery and Primary
School

Year
One

DT- Playgrounds Knowledge Organiser

Summer
Term

Amazing Activities

Visit the park opposite school and explore the equipment.



Key Concepts

Identify different pieces of playground equipment.
Make careful observations of playground equipment.
Draw and label different pieces of playground equipment.

Choose appropriate materials and explore different ways of combining them for a particular purpose.

Identify and investigate ways of strengthening their models to make them sturdy.

Discuss how effective their models are.

Draw labelled diagrams of their designs.

Describe the materials and tools they will need to create their model.

Steps they will need to take to create their piece of playground equipment.

Follow their designs to create their playground equipment.

Join materials together appropriately to create sturdy structures.

Decorate their playground equipment to make them look aesthetically pleasing.

Know what evaluation is and why it is important.

Evaluate their own finished products fairly.

Make comments.

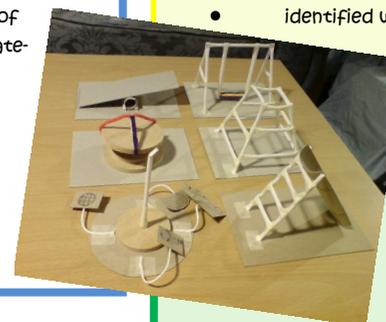


Challenge:

Think of ways to incorporate some type of movement into their model.



Children explore a range of full-size items of playground equipment and make their own models. This unit gives children opportunities to learn about framework structures and how to make them stable and able to support loads. They investigate materials used for the play equipment, what the different parts of the equipment are, and how they have been assembled. Through a range of focused tasks they develop their use of construction kits, combined with reclaimed materials. The main outcome of this unit will be to design and make a model of an item of playground equipment *eg slides, swings, roundabouts, climbing frames and adventure playground equipment*



Skills

- investigated a range of actual items of playground equipment with pictures and labels
- Created a simple plan for a playground.
- Join components together and combined them with other materials *eg card, reclaimed materials, doweling and string;*
- Successfully constructed a realistic model of an item of playground equipment and assembled their model with accuracy following instructions or plans
- Build structures exploring how they can be made stronger, stiffer and more stable.
- used a wider range of materials and construction techniques; have incorporated some type of movement into their model *ie wheels or axles.*
- identified what is and what is not working well with their model

Key Vocabulary

Use words and phrases relating to:

designing *eg drawing, user, model, plan*
making *eg equipment, parts, construction kits, join, fix*

knowledge and understanding *eg framework, movement, structure, weak, strong, on top of, underneath, side, edge, surface, thinner, thicker, corner, point, symmetrical edge, straight, curved*

names and shapes of materials which are used in full-size playground equipment *eg metal, wood, plastic*
types of playground equipment

eg swing, see-saw, roundabout, climbing frame, slide, rocking horse
names of mathematical 2D shapes *eg circle, triangle, square, rectangle*
and 3D shapes *eg cuboid, cube*

Curriculum Links

Science: materials'

Mathematics: Number (before, after, between, largest, smallest, how many, roughly, too many, too far)
measurement

Speaking and listening: Describing observations