

# Outdoor Learning Lesson Plan

## by Nature Play QLD

### Physical Sciences - Objects move

- The way objects move depends on a variety of factors, including their size and shape (ACSSU005)

### Maths - Position and Movement

- Describe position and movement (ACMMG010)

Prep  
Science

**Class:** .....

**Date:** .....

**Time:** .....

**Weather:** .....

#### Resources:

- A collection of balls and objects, a slope/ramp, stopwatch/digital timer (optional)

#### Introduction: (15 mins)

Collect a variety of objects from your outdoor area (e.g. tennis ball, soccer ball, Footy ball, tube, wheel, block, a pebble, a teddy).

Go on a search around the school grounds for a slope, hill or uneven ground. If there are no slopes in your grounds, you can design and create a slope using a ramps and blocks.

#### Main Activity: (20 mins)

Discuss which objects the children think will roll down the hill fast/slow/far. Ask, 'Will all of the objects roll to the bottom of the hill? Why? Which object do you think will reach the bottom of the hill first? Why?'

Invite children to play and investigate rolling the different objects down the slope. If using a plank for a slope, experiment with changing the height, steepness and perhaps the surface of the slope, for children to explore how this affects how fast and how far objects roll. Children may want to experiment with a stopwatch or digital timer (optional).

Have a race to see which object reaches the bottom of the hill first and which object goes the furthest!

#### Plenary: (10 mins)

Invite children to roll themselves down the hill, allowing for space between one another. Discuss how they feel after and why. Ask, 'Did you roll fast/slow?'

