

Measuring Capacity with Informal Units

Numeracy > Units of Measurement > Volume and Capacity

Disclaimer: This Starter Sheet should be regarded as a guide only. Teachers should make adjustments in accordance with the individual learning needs of their students.



CURRICULUM CODES

Australian Curriculum

ACMMG019 Measure and compare the lengths and capacities of pairs of objects using uniform informal units.

ACMMG037 Compare and order several shapes and objects based on length, area, volume and capacity using appropriate uniform informal units.

NSW Curriculum

MAe-9MG Length - describes and compares lengths and distances using everyday language.

MA1-9MG Length - measures, records, compares and estimates lengths and distances using uniform informal units, metres and centimetres.

MA1-10MG Area - measures, records, compares and estimates areas using uniform informal units.

MA1-11MG Volume and Capacity - measures, records, compares and estimates volumes and capacities using uniform informal units.

MA1-12MG Mass - measures, records, compares and estimates the masses of objects using uniform informal units.

Victorian Curriculum

VCMMG095 Measure and compare the lengths, masses and capacities of pairs of objects using uniform informal units.

VCMMG115 Compare and order several shapes and objects based on length, area, volume and capacity using appropriate uniform informal units.

INTRODUCTION

This Mathematics unit addresses the concept of measuring, comparing and ordering capacity using informal units.

It consists of 5 lessons of approximately 60 minutes duration.

The sequence of lessons and suggested time frames should be regarded as a guide only; teachers should pace lessons in accordance with the individual learning needs of their class.

An assessment task for monitoring student understanding of the unit objectives is included and will require an additional lesson.

OBJECTIVES

- ✔ To introduce and explore the concept of capacity.
- ✔ To explore and compare the capacity of containers.
- ✔ To estimate and measure the capacity of containers using informal units.
- ✔ To apply knowledge and understanding of capacity to a real-world situation.
- ✔ To revise and consolidate the concept of capacity.
- ✔ To assess students' knowledge and understanding of capacity.

PREPARING FOR LEARNING

Prior to commencing the unit, create a measurement display in your classroom. Display teaching resources in the classroom that will stimulate the students' interest and assist in their learning. For examples of teaching resources to display in your classroom, browse the [Capacity collection](#) on the Teach Starter website.

Some of the resources which accompany this unit plan will need to be prepared prior to teaching. For this reason, it is advised that teachers browse through all lessons before commencing the unit.

SUGGESTED ASSESSMENT STRATEGIES

- Used strategic whole class or individual questioning
- Observed student participation during learning activities
- Recorded student progress on a checklist
- Annotated student work samples
- Collected and reviewed student work samples
- Facilitated whole class or peer feedback sessions
- Encouraged student self-reflection
- Administered formal assessment tasks

LESSONS

LESSON 1

Introduction to Capacity

A 60 minute lesson in which students will be introduced to and explore the concept of capacity.

LESSON 2

Comparing Capacities

A 60 minute lesson in which students will explore and compare the capacity of containers.

LESSON 3

Measuring, Comparing and Ordering Capacities

A 60 minute lesson in which students will estimate and measure the capacity of containers using informal units.

LESSON 4

Capacity Investigation - Filling the Fish Tank

A 60 minute lesson in which students will apply their knowledge and understanding of capacity to a real-world situation.

LESSON 5

Revision of Capacity

A 60 minute lesson in which students will revise and consolidate the concept of capacity.

LESSON 6

Assessment - Measuring Capacity with Informal Units

A 30 minute assessment in which students will demonstrate their knowledge and understanding of capacity.