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PHOTOCOPY MASTERS

Book 5 - Grade 5/6

Measurement in Mathematics Series

(Metric version)

Practical measuring activities for the classroom.

Written by Gerry Westenberg. Illustrated by Rod Jefferson.
Originally published as Measurement in Mathematics - Book 7 (1998)

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Contents

Introduction - Overview of Topics

This book is designed to be used in conjunction with your mathematics program. The activities follow the curriculum appropriate to students working at this level.

The book covers the following Standards:

Length

- ❑ Measure to the nearest millimeter, centimeter and meter.
- ❑ Complete calculations using kilometers.
- ❑ Find the perimeter of polygons.
- ❑ Find the diameter and circumference of circles.
- ❑ Relate the measurement of length to other measures.

Area

- ❑ Complete measure (informal) of various regions.
- ❑ Complete measure (informal) of triangular regions.
- ❑ Calculate the area of rectangles.
- ❑ Understand the relationship between the area of triangles and rectangles.
- ❑ Understand the relationship between hectares and square meters.
- ❑ Relate the measurement of area to other measures.

Volume/Capacity

- ❑ Measure in liters and milliliters.
- ❑ Measure volume by displacement.
- ❑ Make 3D shapes using cubes.
- ❑ Measure the volume of 3D models.
- ❑ Measure the capacity of containers.
- ❑ Cubic measures: Build a model using cubic meters.
  Understand the relationship between cubic meters and cubic centimeters.
  Develop the understanding of volume in cubic meters.
- ❑ Relate the measurement of volume to other measures.

Mass

- ❑ Measure mass in kilograms and grams.
- ❑ Undertake the suspension and projection of objects.
- ❑ Measure mass using suspension and projection.
- ❑ Relate the measurement of mass to other measures.

Time

- ❑ Complete activities and calculations based on calendars.
- ❑ Understand, use and construct timelines.
- ❑ Understand the seasons and planetary motion.
- ❑ Demonstrate knowledge of geographical position.
- ❑ Read time clocks.
- ❑ Measure time in minutes and seconds.
- ❑ Calculate the conversion of time units.

Materials Required

In addition to the usual classroom stationery items, the following materials are required for some of the activity pages:

- ❑ tape measure or meter ruler
- ❑ graduated containers
- ❑ base 10 blocks
- ❑ 1 cm cubes
- ❑ large elastic bands
- ❑ scales
- ❑ encyclopedias or other reference books
- ❑ trundle wheel

Measurement: How Long? How Far?

❑ Use a ruler to find the lengths of the following items.
Choose three more items and measure their length.

Item: Find the length of ...	mm	cm	m
this page			
your pen			
the blackboard			
your desk			
your classroom			
your math book			

❑ Using a tape measure, meter ruler, or a trundle wheel, find the distance of the following.
Choose two more distances to measure and list them with their measurements.

Item: Find the distance	mm	cm	m
From your room to the canteen			
From your room to the office