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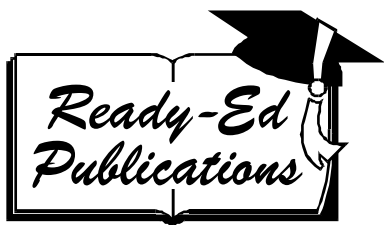
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Book 1 - Grades 1/2

Measurement in Mathematics Series

**Practical measuring activities for the
classroom.**

Written by Jane Bourke. Illustrated by Rod Jefferson.

Originally published as Measurement in Mathematics - Book 1 (1998)

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Measurement: Grades 1 - 2

Measurement in mathematics activities allow many valuable practical learning experiences that cover the concepts of length, area, mass, volume and capacity, and time as laid out in documents relating to numeracy strategies required to be implemented by classroom teachers.

This book concurs with current curriculum theories in that it provides activities which follow on from free play investigations. The activities are easy to use, with each concept based on a theme. However, teachers should feel free to complete the book in any order, using the sheets to complement their existing math program. The relevant mathematical concept is specified on each page, should teachers wish to use the work sheets as extension activities to the class program. The appropriate math curriculum Standard for each activity is indicated on the Contents page opposite.

Each concept contains brief teachers' notes with ideas on how best to use the activities with the class. A list of required materials is included in each section. Many of the activities are designed to be undertaken in groups, preferably with a parent helper. The book is ideally suited to Math Activities Days where small groups rotate around activities according to a roster. For example, the class could be split into groups of six, with one group working on length, one on area, one on mass and so on. Children will begin to recognize the different themes as they complete the activities, such as Larry the Lizard being connected with length.

The book contains:	Length	5 activities
	Area	6 activities
	Volume/Capacity	4 activities
	Mass	5 activities
	Time	7 activities

Some sections contain more sheets as they cover more teaching points. The Math Activities Roster sheet on Page 4 can be used to keep a record of groups and the date children completed each sheet.

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Math Activities Roster

Groups:	1	2	3	4	5
Names of Students:					
<i>Date:</i>					
Length 1					
Area 1					
Mass 1					
V & C 1					
Time 1					
Length 2					
Area 2					
Mass 2					
V & C 2					
Time 2					
Length 3					
Area 3					
Mass 3					
V & C 3					
Time 3					
Length 4					
Area 4					
Mass 4					
V & C 4					
Time 4					
Length 5					
Area 5					
Mass 5					
Time 5					
Area 6					
Time 6					
Time 7					

Length: Teachers' Notes

The concept of length is based around the adventures of Larry the Lizard and his friends. Skills to be developed include: comparing, measuring using arbitrary units, sorting, seriating, alignment and estimating.

Materials required for this section:

- | | |
|---|--|
| <input type="checkbox"/> bottle caps | <input type="checkbox"/> counters |
| <input type="checkbox"/> pencils | <input type="checkbox"/> straws |
| <input type="checkbox"/> ice cream sticks | <input type="checkbox"/> crayons |
| <input type="checkbox"/> colored rods | <input type="checkbox"/> linking cubes |
| <input type="checkbox"/> erasers | <input type="checkbox"/> scissors |
| <input type="checkbox"/> marking pens | <input type="checkbox"/> sticky tape |
| <input type="checkbox"/> blocks (1cm blocks to be used wherever blocks are needed). | |
| <input type="checkbox"/> different sized leaves | <input type="checkbox"/> split pins |

Notes:

Sheet 1: Encourage children to make a pattern when coloring Larry in.
For instance, squares of green, brown and yellow repeated in a pattern.

Sheet 3: Ask children to number the objects in order from longest to shortest. They can write the number in the space under the graph.

Parent helpers may be useful for the more practical activities.

How Long is Larry the Lizard?

You will need:

Some bottle caps, some counters and a pencil.



Here's what to do:

Find out how many bottle caps it takes to measure Larry, starting at his head. Use the picture on the next page.

1. What is your guess?.....

Larry is bottle tcaps long.

2. Now try measuring Larry with counters. What is your guess?

It takes..... counters to measure Larry.

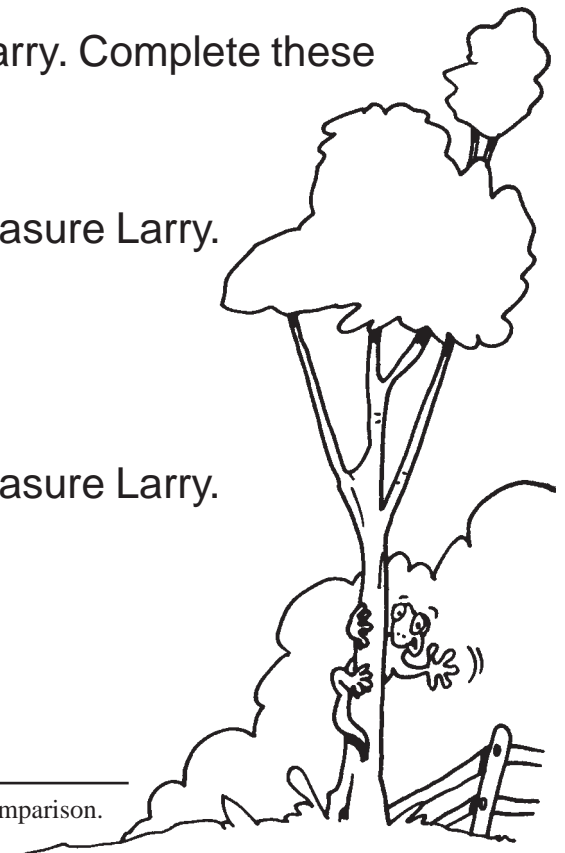
Choose two other objects and measure Larry. Complete these sentences.

3. I used..... to measure Larry.

I needed.....

4. I used..... to measure Larry.

I needed.....



*Measurement: Length: Carry out activities requiring indirect arbitrary comparison.