

Sorting and classifying

# Flowers in My Garden

Number and Algebra



Written for the Australian Curriculum: Mathematics

Sara MacDonald | Randall Hall | Richard John

## AUSTRALIAN CURRICULUM: MATHEMATICS

<b>Strand:</b>	Number and Algebra
<b>Sub-strand:</b>	Patterns and algebra
<b>Descriptor:</b>	Sort and classify familiar objects and explain the basis for these classifications. Copy, continue and create patterns with objects and drawings.

### MATHS WORDS

Sort, two, four, six, pink, yellow, red

### INFORMATION FOR PARENTS OR CAREGIVERS

Helping your child learn to read is a rewarding and enjoyable experience for both you and your child. Here are some ways you can help your child with their reading.

#### BEFORE READING

- Introduce the book; read the title and look at the pictures. Ask your child what colour flowers they have seen in gardens. Which colours have they seen the most (or least) in gardens?
- Refer to the maths words above. Discuss each word and its meaning. These words will appear in this book.

#### DURING READING

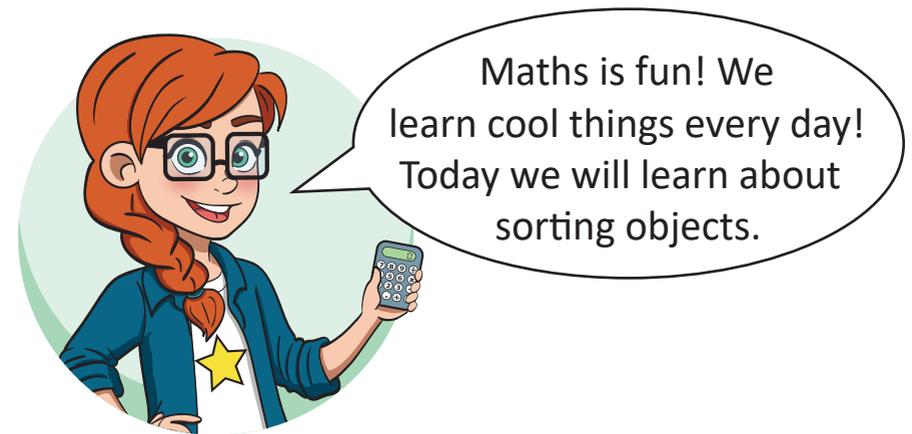
- Ensure the book is being held correctly and your child is tracking the words from left to right across the page.
- Encourage your child to look at the pictures for clues if they are unsure of a word.
- Should your child need help to decode a word, break it down into its individual sounds and blend them together from left to right.

#### MATHS CONCEPTS IN THIS BOOK

This book addresses the *Number and Algebra* strand of the *Australian Curriculum: Mathematics*. In this strand, students are required to sort and classify objects by looking for patterns or characteristics that can be used as a basis for sorting (e.g. the colour of flowers; or the number of petals). Students are also encouraged to create and represent these patterns using real objects or drawings (e.g. by using tables and/or graphs). This book introduces the use of data tables and bar graphs to assist with sorting and classifying flowers based on their colour.

Students are also required to relate the **names** of numbers (e.g. one, two, three, four ....), with the **numerical symbol** (e.g. 1, 2, 3, 4 ....). They are also required to describe and compare **quantities** based on both the named and numerical descriptors.

This book represents number values in three ways: i) via the number names; ii) via the numerical symbol; and iii) via diagrammatic representations of quantities. Understanding of all three representations is required to move forward to later years of schooling.



# Flowers in My Garden



Written for the Australian Curriculum: Mathematics

Sara MacDonald | Randall Hall | Richard John

Look at the flowers  
in my garden.



Flowers come in many  
colours. Which colours can  
you see?

Look at the flowers  
in my garden.

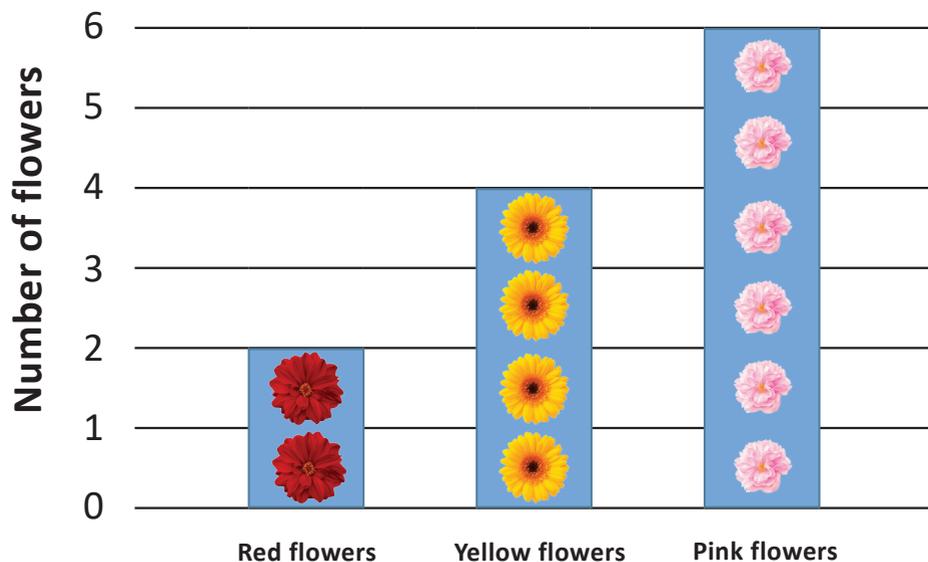


I can see  
two red flowers.



*2 red flowers*

## Flowers in my garden



## AFTER READING

Ask your child what the book was about and encourage them to re-tell it in the order in which it appeared.

Discuss the following with your child to assist them to understand the content of the book.

- How many red flowers are in Millie's garden? How many yellow and pink flowers are in Millie's garden?
- True or false? In Millie's garden there are more red flowers than pink flowers. True or false? There are less yellow flowers than pink flowers.
- What would the bar graph on page 16 look like if there were three red flowers, four yellow flowers and five pink flowers?
- Count the number of red, yellow and pink pencils you have in your pencil case and draw a table to show how many of each colour you have.

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# Flowers in My Garden

Number and Algebra

Book 2 of 24

In this book Millie the Mathematician helps us to sort and classify flowers in her garden based on their colour. She helps us represent the number of each type of flower in tables and graphs. We also learn the connection between the written name of a number, its numeral and its quantity.

**Australian Curriculum:** All books in the 'Millie the Mathematician' series are written for the *Australian Curriculum: Mathematics* and align directly to what children learn in the classroom. This book addresses content from the *Number and Algebra* strand within the *Patterns and algebra* sub-strand. The specific Australian Curriculum content descriptors addressed are: "Sort and classify familiar objects and explain the basis for these classifications. Copy, continue and create patterns with objects and drawings".

## PARENTS, READ ALONG WITH MILLIE!

Throughout this book Millie the Mathematician tells us interesting mathematical facts. Use these prompts to encourage further interest and discussion about **sorting and classifying objects** with your child.

### Suggested Reading Level:



PM 2-5, Fountas and Pinnell B-D



WOW! Sorting objects is cool! And so is maths.

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