

# Foundation Transition Session 2020

Ramya Deepak Kumar – Learning Specialist - Numeracy



MOUNT WAVERLEY  
PRIMARY SCHOOL

*ACHIEVING EXCELLENCE TOGETHER*



# What is Numeracy?

Numeracy is the ability to understand and use numbers, shapes and other mathematical ideas in everyday life.

Numeracy is more than numbers. It involves using mathematics in all aspects of life.

Practical everyday activities at home involve numeracy, such as;

- telling the time
- cooking and
- setting the table

Numeracy also involves:

- the ability to recognise and use shapes,
- working out the chance of something happening, and
- interpreting the data we view in the media.

# Overview



**01**  
Early Years  
Numeracy

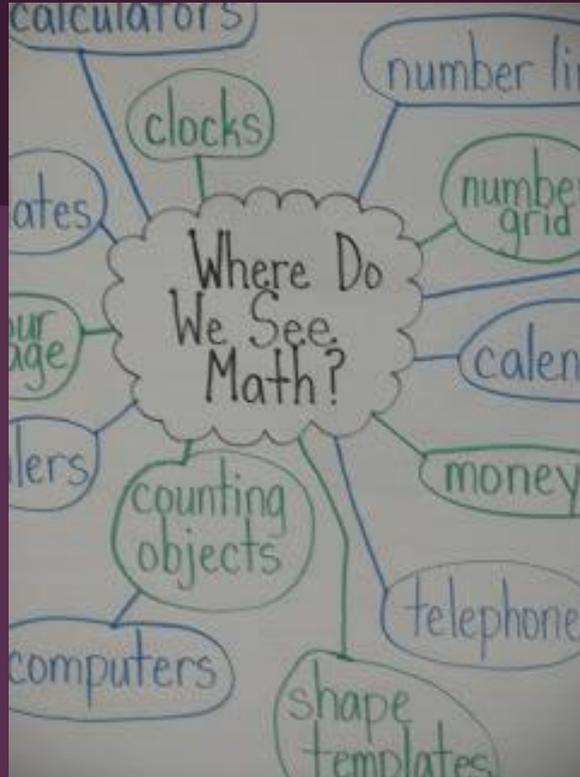
**02**  
Victorian  
Curriculum -  
Numeracy

**03**  
Numeracy @  
MWPS

**04**  
Numeracy @  
Home



# MATH





# Early Years Numeracy





## Did you know your child has been doing numeracy ever since they were a baby?



- They have been learning about numbers when playing with toys or picking Sultanas to eat 😊
  - They have been learning about shapes when they play with food or their toys.
  - If your child has counted the number of red/blue cars on the road, they have collected data.
  - If your child has ever stacked or lined up toys based on colour or shape or size, they have been working with data and making graphs.
  - If your child has ever asked for their sunnies looking at the sun outside or their gumboots because it is cloudy and wet, then they have made a decision based on chance.
  - If your child has fought with their siblings or friends for more chocolate or lollies, they have an understanding of more and less.
- 



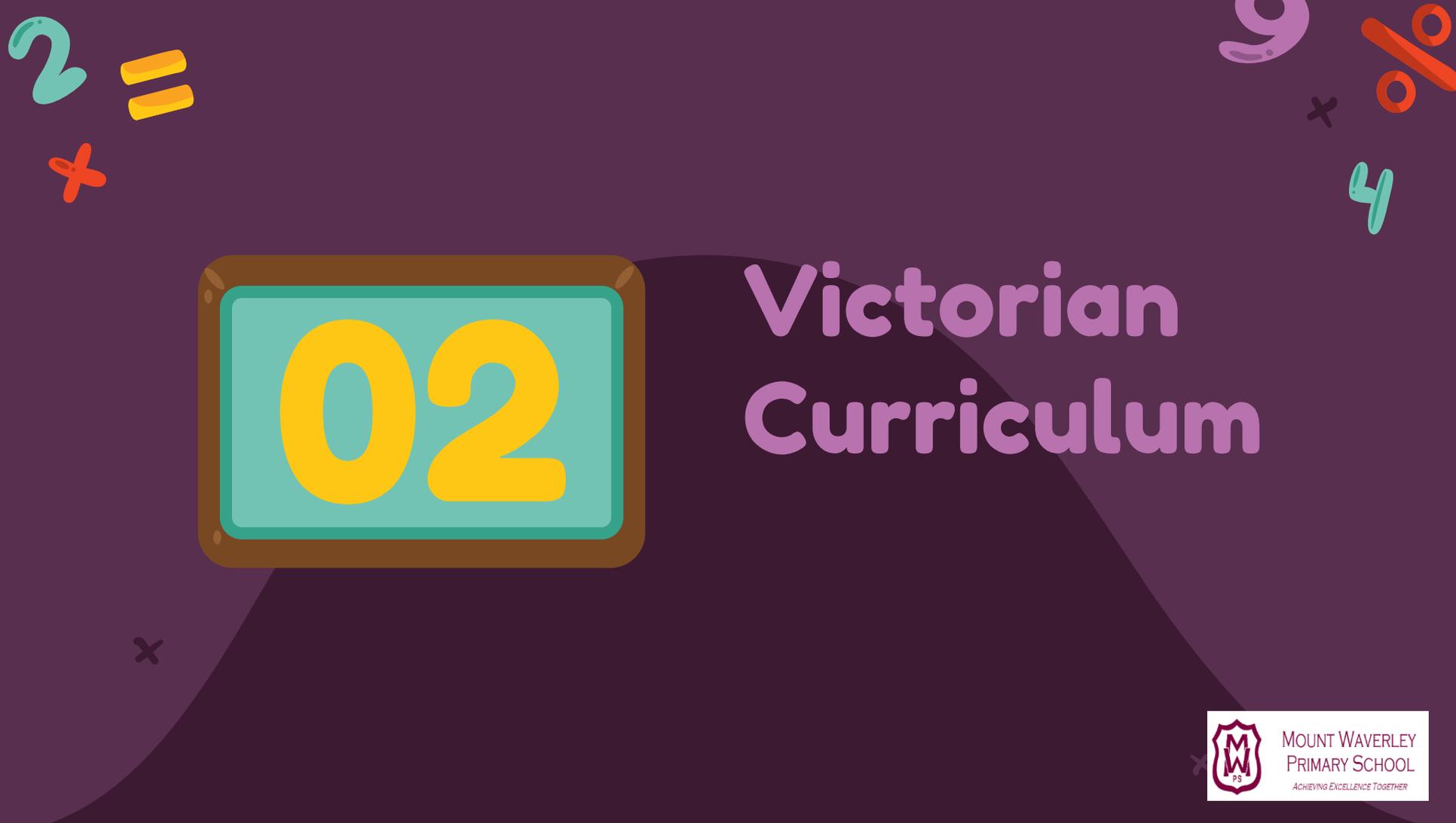
MOUNT WAVERLEY  
PRIMARY SCHOOL

ACHIEVING EXCELLENCE TOGETHER



*“The learning which occurs in the early years is important, both in and of itself, as well in relation to future success” – Dockett*

A child's first years are a time of rapid learning and development. Research provides clear and compelling evidence that attitudes and misconceptions about mathematics and mathematics learning begin at an early age. Therefore there is a clear need to consider and challenge both personal and community beliefs, attitudes and dispositions about mathematics learning.



02

# Victorian Curriculum



MOUNT WAVERLEY  
PRIMARY SCHOOL

ACHIEVING EXCELLENCE TOGETHER

# Victorian Curriculum

## Victorian Curriculum Strands

### Numeracy Focus Areas

### What it looks like in Foundation

Number and Algebra

Developing Number Sense

Exploring Patterns and Relationships

Using Proportional Reasoning

Understanding and Using Geometric Positioning and Locating

Measurement and Geometry

Understanding, Estimating and Using Measurement including Time

Statistics and Probability

Interpreting and Representing Data  
Understanding Chance

- connect number names and numerals
- use counting strategies to solve problems that involve comparing, combining and separating
- represent, continue and create simple patterns
- compare lengths, masses and capacities of familiar objects
- order events, explain their duration, and match days of the week to familiar events
- identify simple shapes in their environment and sort shapes by their common and distinctive features.
- use simple statements and gestures to describe location.
- sort familiar and simple data and use these to answer yes/no questions

# Victorian Curriculum Numeracy

Each of these focus areas and curriculum progression are then guided by the following proficiencies. Proficiencies are the actions students engage in when learning mathematics and working mathematically and are as follows:

- understanding
- fluency
- problem solving
- reasoning

These capabilities allow students to respond to familiar and unfamiliar situations by employing mathematics to make informed decisions and solve problems efficiently.



03

# Numeracy @ MWPS



MOUNT WAVERLEY  
PRIMARY SCHOOL

ACHIEVING EXCELLENCE TOGETHER

# Numeracy @ MWPS

At Mount Waverley Primary School we have a whole school approach to the development and delivery of a comprehensive mathematics program designed to foster and promote the numeracy skills, understandings and strategies of all our students.

We aim to equip students with the mathematical strategies necessary for their school life and real world contexts and appreciate that mathematics is an essential and integral part of life.

The school ensures that each class dedicates at least one hour to Mathematics every day.

A typical math lesson may include:

- a warm up to promote mathematical fluency,
- a number talk to encourage verbalising mathematical strategies and reasoning,
- explicit teaching of concepts and understandings, and
- opportunities to apply knowledge to problem solving situations.

Children take part in focussed teaching groups, complete independent, partner or group work and are involved in roving conferences with their teacher. Each Mathematics session is concluded with an opportunity to reflect on learning and to share successful strategies.

Everyone can learn maths to high levels!

Believe in yourself, it changes what you can do!

Maths is about creativity and making sense!

Mistakes and challenge are the best times for your brain!



# youcubed Maths Class Norms

Maths is about learning not performing!

Questions & discussions deepen your mathematical understanding!

Visualize and make connections to strengthen your brain!

Depth is more important than speed!



MOUNT WAVERLEY  
PRIMARY SCHOOL

ACHIEVING EXCELLENCE TOGETHER

# Assessment

Assessment is ongoing @ MWPS.

Conducted in many forms:

Formal Evaluations

Reports in June and  
December

Informal Ongoing assessments

- Teacher Observations
- Self Assessments
- Set Class Tasks
- Moderated Tasks
- Group Tasks



04

# Numeracy @ Home



MOUNT WAVERLEY  
PRIMARY SCHOOL

ACHIEVING EXCELLENCE TOGETHER

# Numeracy @ Home

As parents and carers, you play a significant role in your child's learning by setting expectations, nurturing curiosity, and encouraging a love of learning.

**Helping children to become numerate does not need a high level of mathematics.**

**It means:**

- encouraging children to try, then keep trying – eg. Puzzles, games
- encouraging children to think (reason) – eg. Discussing similarities and differences between shapes
- modelling numeracy with children – eg. Board games, telling time, while shopping
- talking aloud when solving problems (every day or mathematical) – eg. Counting, measuring, sharing between friends
- getting children to check their answers (Does this answer make sense?) – eg. Counting while setting the dinner table



# Numeracy @ Home

Helping children at home contd....

- encouraging children to help with
  - cooking (especially measuring out ingredients)
  - paying bills
  - scheduling events in the day
  - reading maps and giving directions
  - shopping
  - measuring — and thanking them for their support
- do not say “Maths is hard” or “I was never good at maths”.
- **Numeracy capability is not inherited but attitudes are contagious.**
- Asking questions and giving instructions like
  - “What do you already know about this problem/question?”
  - “How might you work it out?”
  - “Explain why you think that is the answer?”
- Not focusing only on the correct response, the process/approach is important
- **Allowing your child to experience some confusion. It is an essential aspect of the learning process.**



# FAQ'S

- For any questions/queries regarding the Mathematics curriculum/learning/teaching, your classroom teacher is always the first point of contact.
- Numeracy in early years is built on a lot of exploring and play. Encourage these attributes and join in them with your child. **It is ok to not know.**
- Foundation is a big step up in the academic and social life of your child. Enjoy this journey with your child and support them in this transition.

## Some Useful Links

<http://numeracyguidedet.global2.vic.edu.au/numeracy-at-home/>

<https://victoriancurriculum.vcaa.vic.edu.au/mathematics/curriculum/f-10>

<https://www.education.vic.gov.au/parents/learning/Pages/numeracy-birth-year-2.aspx>

# Thanks!

Thanks for listening and making MWPS a part of your child's education journey.

We welcome you all to the Mount Waverley Primary School family.

Do you have any questions?  
[ramya.deepakkumar@education.vic.gov.au](mailto:ramya.deepakkumar@education.vic.gov.au)



MOUNT WAVERLEY  
PRIMARY SCHOOL

*ACHIEVING EXCELLENCE TOGETHER*



