



MATHEMATICS POLICY

Rationale:

We believe that Mathematics has applications in many human activities, crossing cultural and linguistic boundaries to provide a universal way of solving problems. We strive to include mathematical thinking in other areas of the curriculum such as science, engineering, technology, arts, history, physical education, English and Chinese language.

The mathematics curriculum at Eaglehawk North Primary School focuses on developing mathematical understanding, fluency, reasoning, modelling and problem-solving. These capabilities enable students to respond to familiar and unfamiliar situations by employing mathematics to make informed decisions, estimate, reason, and solve problems efficiently.

We believe every child who attends our school can learn mathematics. We believe every child at Eaglehawk North Primary School can be numerate.

Purpose: The mathematics curriculum aims to ensure and enable students:

- acquire the mathematical knowledge, language, reasoning and confidence to use mathematics to conduct everyday life, work in society and or engage in further study
- engage and develop a positive attitude towards Mathematics
- see that Mathematics is relevant to them, their families and wider society
- develop an ability to apply prior knowledge to solve problems using a variety of strategies
- use investigative procedures to verbalise the reasoning involved, to positively evaluate their work
- lay foundations of future learning by building understanding, facilitating transfer of knowledge to other situations and prompting generalisation
- expand ways of thinking in Mathematics.

Guidelines for Implementation:

1. Children will be provided with a program based upon the framework of the Victorian Curriculum, inclusive of documents from the Victorian Curriculum and Assessment Authority (VCAA) and Department of Education and Training (DET). Such as, Scope and Sequence, Maths Teaching Toolkit, Birth to 10 Numeracy Guide, Numeracy Portal, and Mathematics Assessment.
2. A Numeracy Working Party will be established and responsible for:
 - a) Scope and Sequence implementation and guidelines
 - b) ENPS Instructional Model
 - c) Numeracy Assessment Schedule
 - d) Organisation, collating and updating the Numeracy Data Wall
 - e) Modelling/Coaching for teaching staff
 - f) Organisation of Peer Observation (when focusing on numeracy)
 - g) Responsible for on-going numeracy P.D
3. Mathematics assessment tasks will be scheduled by PLC's on the ENPS Assessment Schedule throughout the year.
4. Progress of all students will be monitored by the Numeracy Data Wall.
5. Progress of all students will be tracked using PAT-M, and Essential Assessment.
6. Links between aspects of Mathematics and the way in which it is used in other Victorian Curriculum domains will be emphasised.

7. Teachers will use data to plan and implement mathematics lessons which cater for individual student needs and learning difficulties.
8. Technology will be utilised where appropriate as an instructional aide, a computational tool and as a means of demonstrating the application of Mathematics.
9. Involvement of parents will be promoted. The school will conduct programs and special events, which encourage parents to become involved at home and school in their children's mathematics.
10. The Mathematics Program Budget will provide for materials and professional development, managed by a Whole School Numeracy Leader and Numeracy Working Party.

Resources:

ACER OARS: PAT-M 4th Edition

<https://oars.acer.edu.au/eaglehawk-north-primary-school>

Essential Assessment

<https://www.essentialassessment.com.au/>

Department of Education and Training

<https://www.education.vic.gov.au/school/teachers/teachingresources/discipline/maths/Pages/default.aspx>

George Booker – Teaching Primary Mathematics 2nd edition

Victorian Curriculum and Assessment Authority

<https://victoriancurriculum.vcaa.vic.edu.au/>