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## **MATHEMATICS**

### **Rationale:**

The students need to experience mathematical activities that are meaningful, engaging and relevant to their interests and capabilities. The school's Mathematics program will focus on developing mathematical understanding, fluency, reasoning, modelling and problem solving so that students can deal with situations involving mathematics in life.

### **Aim:**

To provide high quality learning opportunities for all students by providing appropriate sequential activities that lead to the development of mathematical and numeracy skills, concepts and processes for everyday life, work and as active and critical citizens in a technological world.

### **Implementation:**

1. Maths Discipline-based Learning is integral. A minimum of 5 hours of numeracy will be timetabled per week. Where possible this will be a daily one hour focused session.
2. Understanding and application of mathematical ideas will be developed in the strands of Number and Algebra, Measurement and Geometry, Statistics and Probability.

The proficiencies of Understanding, Fluency, Problem Solving and Reasoning are applied across all three Strands.

3. The Victorian Curriculum will be the basis for all classroom programs. Other references and resources are listed in the Numeracy file on the staff server.
4. The Mathematics Coordinator will be responsible for the resourcing and distribution of Maths materials throughout the school. The coordinator will lead the curriculum team in implementing the policy and ensuring that effective whole school planning, programming and evaluation strategies are practised.

5. As well as explicit teaching, mathematical skills and knowledge will be developed through real-life investigations and practical applications. Through a developmental approach the children will be engaged and Mathematical thinking will be used as an integral part of all classroom programs.
6. The children will be encouraged to create and experiment with mathematical concepts through a range of problem solving experiences within the integrated curriculum and through the careful planning, implementation and evaluation of stand-alone Mathematical units. Students will be offered learning activities in which they can share, explain their ideas, reflect on their learning and apply effective individual strategies.
7. Parental involvement in school programs should be encouraged. Parents should be informed of current trends in mathematics education and actively engaged in their children's learning through both classroom and home activities and parent/teacher partnership programs.
8. Learning technologies are a vital part of the total curriculum and mathematics program. The opportunity for regular classroom use from Foundation to Year 6 will enhance and support the development of mathematical skills.
9. Teachers will be encouraged to enhance their Professional Development through attendance at teacher education sessions, opportunities for collegiate discussions and professional reading and cluster meetings. The school will maintain membership in relevant organizations.

### **Evaluation:**

Ongoing assessment and reporting will be carried out in line with the Marlborough Primary School Assessment Schedule which includes:

- The Victorian Curriculum checklists
- Tools such as open ended tasks, formal testing and teacher observation
- Annotated work samples
- Student self-assessment
- Online testing
- Commercial testing
- NAPLAN
- Individual Student Portfolios
- Twice yearly formal reporting to parents
- Informal reporting to parents