

**Rationale**

The need to understand and be able to use mathematics in everyday life and in the workplace has never been greater and will continue to increase. The underpinnings of everyday life are increasingly mathematical and technological. Just as the level of mathematics needed for intelligent citizenship has increased, so too has the level of mathematical thinking and problem solving needed in the workplace. Those who understand and can do mathematics will have significantly enhanced the opportunities and options for shaping their futures. Mathematical competence opens doors to productive futures

**Course Description**

Mathematics is designed to provide a classroom environment where the beginning learner develops number sense in everyday life by applying mathematical processes, reasoning, and problem-solving strategies. This is an integrated program that provides instruction in mathematical concepts. The topics covered include: developing number sense up to 120, addition and subtraction within 20, geometric shapes, place value, measurement, and data. The student will move through concrete models to pictorial representation, to abstract representation of mathematical concepts with an emphasis on problem solving and reasoning.

**Course Objectives**

1. The student will make sense of problems and persevere, reason abstractly and quantitatively, model with mathematics, use tools strategically, attend to precision, make use of structure, look for and make use of repeated reasoning, construct viable arguments, and critique the reasoning of others when solving problems.
2. The student will represent and solve problems involving addition and subtraction.
3. The student will understand and apply properties of operations and relationship between addition and subtraction.
4. The student will add and subtract within 20.
5. The student will work with addition and subtraction equations.
6. The student will extend the counting sequence.
7. The student will understand place value.
8. The student will use place value understanding and properties of operations to add and subtract.
9. The student will measure lengths indirectly and by iterating length units.
10. The student will tell and write time.
11. The student will represent and interpret data.
12. The student will reason with shapes and their attributes.

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