

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

Kindergarten mathematics is designed to provide the beginning learner with an understanding of numbers, quantities, and describing shapes in space using mathematical processes, measurement tools, and problem solving. The student will be studying numbers, 2D and 3D shapes, addition and subtraction, measurement, and position words.

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 know number names and count sequence.
3. The student will count to tell the number of objects.
4. The student will compare numbers.
5. The student will understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.
6. The student will work with numbers 11-19 to gain foundations for place value.
7. The student will describe and compare measurable attributes.
8. The student will classify objects and count the number of objects in each category.
9. The student will identify and describe shapes.
10. The student will analyze, compare, create, and compose shapes.

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