KANGAROO MATH THAII AND

KANGAROO MATH COMPETITION SYLLABUS

• Pre-Ecolier (Grade 1-2)

- o simple arithmetic operations with 1 digit and 2 digit numbers.
- o distinguishing simple figures.
- o time, clock.
- o number of days in a week, number of months in a year.

• Ecolier (Grade 3-4)

- o simple arithmetic operations with 1,2,3 and 4 digit numbers.
- recognizing geometric figures.
- o a magic square with a sum of 15.
- o time, clock.
- o number of days in a week, number of months in a year.
- o addition, subtraction, multiplication, division.
- intersection of sets.
- o perimeter and area of a square, a rectangle.

Benjamin (Grade 5-6)

- o addition, subtraction, multiplication, division.
- magic squares.
- o fractions and decimals.
- o clock, a calendar.
- o perimeter of a polygon.
- o area of a rectangle and a triangle.
- o lines and rays on a surface.
- o a cube, a rectangular solid.
- o acute, right, and obtuse angles.
- mathematical logic.

Cadet (Grade 7-8)

- o operations on rational numbers.
- powers of natural numbers.
- o equations, inequalities and systems of linear equations.
- o area of a rectangle, a triangle and a circle.
- o lines and rays on a surface.
- o volume and surface area of geometric figures.
- o angles: acute, right, and obtuse.
- o supplementary angles, sum of angles in a triangle and in a quadrilateral.
- o mathematical logic.

Junior (Grade 9-10)

- o operations on real numbers.
- o functions, polynomials, equations, inequalities.
- o sequences of numbers.
- o elements of combinatorics.
- o synthetic plane geometry.
- o analytic plane geometry.

• Student (Grade 11-12)

- o operations on real numbers.
- o functions, polynomials, equations, inequalities.
- sequences of numbers.
- o elements of combinatorics.
- o synthetic plane geometry.
- o analytic plane geometry.
- o synthetic space geometry.
- o analytic space geometry.

Papers may include topics which are related to or are extension of the topics listed.