CO-CURRICULAR · MATH KANGAROO — TEST & PREP

Kangaroo Math Grades 7 & 8

A 7-month, six-belt Kangaroo Math program for Grades 7 and 8, building from lines, angles, triangles and quadrilaterals through areas, coordinates and solids to divisibility, roots, percentages, the metric system, linear algebraic calculation, logic and combinatorics, with past-paper practice in every belt.

6 belts | 30 topics | Grade 7 | Completes in 7 Months & 2 Weeks

White Belt 1

Arena 1 · 5 Weeks

1. Point, line, segment, circle, radius, and diameter
2. angle, acute angle, right angle, obtuse angle, and Elementary propositions about angles
3. triangle, isosceles triangle, equilateral triangle, translation and rotation in the plane Sum of the angles of a triangle
4. Quadrilateral, square, rectangle, sum of the angles of a square
5. Review & Assessment

White Belt 2

Arena 1 · 5 Weeks

1. parallelogram, rhombus, trapezium, diagonal
2. regular polygon Symmetry
3. angles formed by two parallel lines intersected by a third line
4. sides and diagonals in special triangles and quadrilaterals Perimeter
5. Past paper practice

Yellow Belt 1

Arena 2 · 5 Weeks

1. area of a square, rectangle, parallelogram, rhombus, trapezium, triangle
2. Coordinates of a point in the plane
3. Cube, regular parallelepiped, prism, pyramid, cone, cylinder, sphere
4. Area and volume of a cube and a regular parallelepiped
5. Past paper practice

Yellow Belt 2

Arena 2 · 5 Weeks

1. movement of one- and two-dimensional objects (such as knots and folding)
2. Intuitive 2-d representation of a 3-d object
3. Calculations with integers and rational numbers (fractions or decimals)
4. Prime numbers GDC and LCM Recognizing multiples of 2, 3, 4, 5, 6, 9 and 10
5. Past papers (assessments)

Green Belt 1

Arena 3 · 5 Weeks

1. Divisibility of a sum and a difference powers with exponent 2 Square root of a perfect square, cubic root of a perfect cube
2. Formulas Percentage Metric system (length, weight, area, volume, temperature...)
3. Problems using time, distance and velocity without algebraic calculation
4. Problems with an intuitive knowledge of probability
5. Past paper practice

Green Belt 2

Arena 3 · 5 Weeks

1. Linear algebraic calculations (adding and subtracting monomials of degree 1, multiplying a rational number and a monomial of degree 1)
2. Problems that can be reduced to a linear equation or inequality in one variable.
3. Logic problems that can be solved in a limited number of steps or by analyzing a limited number of cases or hypotheses
4. Combinatorial Problems that do not involve any formula
5. Past papers (assessments)