

KCSE MATHS SETTING: PAPER 1

PART 1: EQUATIONS

- i. Equations of a straight line; parallel and perpendicular.
- ii. Linear equations (words and equations)
- iii. Quadratic equations and expressions
- iv. Linear inequalities

PART 2: TRANSFORMATION, VECTORS, SIMILARITIES AND ENLARGMENT.

- I. Rotation
- II. Reflection
- III. Translation
- IV. Enlargement
- V. Vector 1 and 2

PART 3: STATISTICS 1

- Median, mode and mean.
- Histogram and frequency polygon

PART 4: CONSTRUCTIONS

- I. Bearing and scale drawing.
- II. Survey.
- III. Elevation and depression.

PART 5: AREA, SURFACE AREA, VOLUME AND TRIGONOMETRY 1

PART 6: PROPORTIONS AND RATES

- Linear motion.
- Ratios and percentages.
- Commercial arithmetic 1
- Fractions
- Decimals
- Integers.

PART 7: ANGLE AND AREA PART OF A CIRCLE.

PART 8: OTHER SPECIAL AREAS

Indices, Logarithms, Common solids, squares and square roots, cubes and cube roots, reciprocal, calculus and kinematics.

KCSE MATHS SETTING: PAPER 2

PART 1. SECTION ONE (At least 7)

- Binomial expansion
- Formulation and Variation
- Logarithm tables
- Further logarithms
- Surds
- Errors and approximation
- Matrices and transformation
- Equation of a circle
- Further quadratic expressions and equations.

PART 2: GRAPHS

- Trigonometric graphs
- Quadratic graphs / Cubic graphs
- Ogive graph.
- Linear programming
- Matrices and transformation.
- Graphical determination of laws(empirical graphs)

PART 3: GEOMETRY

- Construction and Loci
- 3-D-Geometry
- Longitudes and Latitudes
- Vector geometry

PART 4: COMMERCIAL ARITHMETICS II

- Income tax
- Depreciation and appreciation, Compound interest, Hire purchase
- Mixtures and compound proportions
- Series and sequences

PART 5: CALCULUS AND AREA ESTIMATION

- Differentiation and its application
- Integration and its application
- Trapezoidal and mid-ordinate rules
- Kinematics

PART 6: SPECIAL AREAS

- Probability
- Statistics 2 (standard deviation)
- Circles chords and tangents