

Form Three Term III Topics and Objectives

TOPIC	OBJECTIVE
	Review of examination scripts (Term II 2017/2018)
QUADRATIC EQUATIONS	<ul style="list-style-type: none"> ➤ Concept of the roots of a quadratic equation, $y = ax^2 + bx + c$. ➤ Describing the different types of roots of a quadratic (real/distinct, equal and no real roots). ➤ Solution of quadratic equations by factorization.
ALGEBRAIC FRACTIONS	<ul style="list-style-type: none"> ➤ Simplifying fractions. ➤ Multiplying and dividing fractions. ➤ Addition and subtraction of fractions. ➤ Solving equations with fractions.
POLYGONS	<ul style="list-style-type: none"> ➤ Definition of polygons. ➤ Regular polygons. ➤ Interior and exterior angles. ➤ Sum of interior angles. ➤ Tessellations.
CIRCLES	<ul style="list-style-type: none"> ➤ Major and minor arcs, sectors, segments ➤ Angle subtended by an arc ➤ Relationships between angles and circles ➤ Constructing Perpendicular Bisector ➤ Construct Circumference of a triangle
RATIO AND PROPORTION	<ul style="list-style-type: none"> ➤ Concept of ratios. ➤ Simplifying ratios (same and mixed units). ➤ Division in a given ratio. ➤ Direct proportion. ➤ Inverse proportion.
PYTHAGORAS' THEOREM	<ul style="list-style-type: none"> ➤ Pythagoras' Theorem. ➤ Converse of Pythagoras' Theorem. ➤ Applications of Pythagoras' Theorem.

TRIGONOMETRY	<ul style="list-style-type: none"> ➤ Trigonometric Ratios (sine, cosine and tangent) ➤ Using trig ratios to find missing lengths (opposite, adjacent and hypotenuse) in a right-angled triangle. ➤ Using trig ratios to find missing angles in a right-angled triangle. ➤ Angles of Elevation and Depression ➤ Finding angles and sides of wedges, pyramids and cuboids
STATISTICS	<ul style="list-style-type: none"> ➤ Measures of central tendency (mean, mode and median). ➤ Mean, mode and median of raw data. ➤ Finding measures of central tendency from a frequency table. ➤ Finding measures of central tendency from a grouped frequency table.
SETS	<ul style="list-style-type: none"> ➤ REVISION: set notation, Venn diagrams, union, intersection ➤ Complement of a set/ Number of Elements ➤ Problems involving three sets
OPERATIONS, RELATIONS AND FUNCTIONS	<ul style="list-style-type: none"> ➤ Operations. ➤ Commutative, associative and distributive operations. ➤ Identity element, inverse element and closure. ➤ Relations. ➤ Functions.
REVISION	NCSE/ FINAL EXAMINATION