

FINAL EXAMINATION MAY/JUNE 2022
MATHEMATICS PORTION
YEAR 8

PAPER 1 : NON – CALCULATOR - 60 MARKS – 1 HOUR 15 MINS

PAPER 2 : CALCULATOR - 40 MARKS – 45 MINS

Text book : KS3 Maths Progress Delta 2

Unit 1 –Factors and powers

- 1.1 Prime factor decomposition
- 1.2 Laws of indices
- 1.3 Powers of 10
- 1.4 Calculating and estimating

Unit 2 – Working with powers

- 2.1 Simplifying expressions
- 2.2 More simplifying
- 2.3 Expanding and factorising expressions
- 2.4 Substitution and solving

Unit 3 – 2D shapes and 3D Solids

- 3.2 Surface area of prisms
- 3.3 Volume of prisms
- 3.4 Circumference of a circle
- 3.5 Area of a circle
- 3.6 Cylinders
- 3.7 Pythagoras' Theorem

Unit 4 – Real life graphs

- 4.3 Distance-time graph
- 4.4 Rates of change

Unit 5 –Transformations

- 5.1 Reflection and translation
- 5.2 Rotation
- 5.3 Enlargement
- 5.4 More enlargement

Unit 6 – Fractions, decimals and percentages

- 6.1 Recurring decimal
- 6.2 Using percentages
- 6.3 Percentage change
- 6.4 Repeated percentage change

Unit 7 – Constructions and Loci

- 7.1 Accurate Drawings**
- 7.2 Constructing shapes**
- 7.3 Constructions 1**
- 7.4 Constructions 2**

Unit 8 – Probability

- 8.1 Comparing probability
- 8.2 Mutually exclusive events
- 8.3 Estimating probability
- 8.4 Experimental probability
- 8.5 Probability diagrams

Unit 9 –Scale drawings and measures

- 9.4 Congruent and similar shapes
- 9.5 Solving geometry problems

Unit 10 – Graphs

- 10.1 Plotting linear graphs
- 10.2 The gradient
- 10.3 $y = mx+c$
- 10.4 Parallel and perpendicular lines

Text book : KS3 Maths Progress Delta 3

Unit 1 – Powers and roots

- 1.2 Indices
- 1.3 Standard form

Unit 2 –Quadratics

- 2.2 Expanding

Unit 3 – Inequalities, equations formula

- 3.2 Using index laws
- 3.3 Solving equations
- 3.4 Changing the subject

Unit 4 – Estimating Statistics

- 4.3 Estimating Statistics

Unit 5 – Multiplicative reasoning

- 5.4 Arcs and sectors

Unit 8 – Graphical solutions

- 8.1 Simultaneous equations

Textbook : KS3 Maths Progress Delta 1 – Revision

Topics Unit 1 - Analyzing and displaying data

- 1.2 Averages and range
- 1.3 Grouped Data
- 1.4 More Graphs
- 1.5 Pie Charts

Unit 5- Angles and shapes

- 5.1 Angles and parallel lines
- 5.2 Triangles
- 5.3 Quadrilaterals
- 5.4 Polygons

Unit 8 - Multiplicative reasoning

- 8.2 Writing Ratios
- 8.3 Sharing in a given Ratio
- 8.4 Proportion
- 8.5 Proportional reasoning
- 8.6 Using the unitary method

Unit 10 – Sequences and graphs

- 10.1 Sequences
- 10.2 The nth term
- 10.3 Pattern Sequences

Note:

All the works done in notebook and worksheet

GL Progress Test in Mathematics

GL Progress Test in Math assesses pupil's current knowledge and skills appropriate to age related expectations.

GL PTM assesses

- 1. Mathematical content knowledge (Full Year portion as given above)**
- 2. Understanding and applying mathematical process.**