

YEAR 8 - MATHEMATICS FINAL EXAM PORTIONS 2021

GI 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)**
- 2. Understanding and applying mathematical processes.**

MATHEMATICAL CONTENT

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 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

- 9.1 Maps and scales
- 9.2 Bearings
- 9.3 Scales and ratio
- 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 work done in notebook and worksheets.