

**FINAL EXAMINATION MAY/JUNE 2022**

**MATHEMATICS PORTION**

**YEAR 7**

**MARKS : 100**

**TIME : 2 HOURS**

**Textbook: KS3 Maths Progress Delta 1**

**Unit 1 – Analyzing and Displaying Data**

1.2 – Averages and range

1.3 – Grouped Data

1.4 – More Graphs

1.5 – Pie Charts

**Unit 2 – Number skills**

2.1 – Factors, Primes and Multiples

2.2 – Using negative numbers

2.4 – Square and square roots

2.5 – More powers and roots

**Unit 3 - Equations, Functions and Formulae**

3.1 – Simplifying algebraic expression

3.2 – Writing algebraic expression

3.3 – Using formulae

3.4 – Writing formulae

3.5 – Brackets and powers

3.6 – Factorizing expressions

**Unit 4 – Fractions**

4.1 – Working with fractions

4.2 – Adding and subtractions fractions

4.3 – Fractions, decimals and percentages

4.4 – Multiplying and dividing fractions

4.5 – Working with mixed numbers

## **Unit 5 – Angles and shapes**

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

## **Unit 6 – Decimals**

- 6.1 – Ordering decimals
- 6.2 – Rounding decimals
- 6.3 – Adding and subtracting decimals
- 6.4 – Multiplying decimals
- 6.5 – Dividing decimals
- 6.6 – Fractions, decimals and percentages

## **Unit 7 – Equations**

- 7.1 – Solving one step equations
- 7.2 – Solving two step equations
- 7.3 – More complex equations

## **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 9 – Perimeter, area and volume**

- 9.1 – Triangles, parallelograms and trapeziums
- 9.2 – Perimeter and area of compound shapes
- 9.3 – Properties of 3D solids
- 9.4 – Surface Area
- 9.5 – Volume

## **Unit 10 – Sequences and Graphs**

- 10.1 – Sequences
- 10.2 – The nth term
- 10.3 – Pattern Sequences
- 10.4 – Coordinates and line segments
- 10.5 - Graphs

## **Textbook: KS3 Maths Progress Delta 2**

### **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

### **Unit 5 – Transformations**

- 5.1 – Reflection and Translation
- 5.3 – Enlargement
- 5.4 – More Enlargements

### **Unit 7 – Constructions**

- 7.1- Accurate drawings
- 7.2- Constructing shapes
- 7.3- Constructions 1
- 7.4 –Constructions 2

### **Unit 8 – Probability**

- 8.1 – Comparing probabilities
- 8.2 – Mutually Exclusive events
- 8.4 – Experimental probability
- 8.5 – Probability diagrams

#### *Note:*

#### **Geometric Proof –**

- The sum of the three angles in a triangle is  $180^\circ$
- The exterior angle of a triangle is equal to the sum of the two interior opposite angles.

All the works done in PPT, notebook, textbook and worksheets.

## **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 processes.**