MATHEMATICS FINAL EXAM PORTION (May 2021)

YEAR 4

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).

2. Understanding and applying mathematical processes.

MATHEMATICAL CONTENT

1. NUMBERS

✚ *Number and place value*

Read, write 4 and 5-digit numbers, compare using < and > and place on a number line.

Write the place value of a digit in a four digit number.

Round 4-digit numbers to the nearest: 10, 100 and 1000.

Read and write Roman numerals to 100.

Negative numbers

✚ *Addition and subtraction*

Add and subtract numbers with up to 4 digits using the formal written methods

Double 3-digit numbers and halve even 3-digit numbers.

✚ *Multiplication and division*

Recall multiplication and division facts for multiplication tables up to 12×12
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
Divide numbers (up to 3- digits) by single-digit numbers with no remainder and with a remainder.

✚ *Fractions (including decimals)*

Unit fractions; identify equivalent fractions; reduce a fraction to its simplest form; count in fractions (each fraction in its simplest form)
Find non-unit fractions, equivalent fractions and simplify fractions (halves, thirds, quarters)
Add fractions with like denominators, including totals 1.
Place value in decimals and the relationship between tenths and decimals.
Locate decimals on a number line.

Round decimals numbers to the nearest whole number.
Divide and multiply 2-digit/3-digit numbers by 10 and 100 to get decimal numbers.
Solve simple measure and money problems involving fractions and decimals to two decimal places.

2. **MEASURES**

Tell and write the time to the minute on analogue and digital clocks; calculate time intervals.
Tell the time on a 24 hour clock, using am and pm correctly; convert pm times to 24 hour clock and vice versa; use 24 hour clock in calculating intervals of time.
Measure in metres, centimetres and millimetres; convert lengths between units; record using decimal notation.
Convert grams into kilograms, litres into millilitres.
Solve simple money problems with decimals to two decimal places.

3. **GEOMETRY – Properties of shapes**

Recognise and compare acute, right and obtuse angles. Measure and draw angles.
Identify perpendicular and parallel lines.
Recognise and draw line symmetry in shapes; draw the other half of symmetrical shapes.
Calculate area and perimeter of rectilinear shapes using multiplication and addition, or counting.
Recognise, name and classify 2D and 3D shapes.
Identifying regular and irregular polygons; sort 2D shapes according to properties including types of quadrilaterals and triangles.

4. **GEOMETRY – Position and Direction**

Describe positions on a 2-D grid as coordinates in the first quadrant
Use coordinates to draw polygons; find the coordinates of shapes after translation.

5. **STATISTICS**

Draw and interpret information in tally charts, bar charts and pictograms.
Draw, interpret line graphs.

All the work done in Note book/ Worksheets / Google Forms.