



The Mall School

Curriculum Guide

Mathematics – Summer Term

Year 5

Teachers:	Dr Alistair Miller, Mrs Sue Warrington & Mr Serge Lang
Lessons:	3 x 40min, 1 x 60min, 1 x 80min
Homework:	2 x 40min (Tuesday & Friday)

Introduction:

This term the boys will continue to follow the scheme of work aimed at the Y6 pre-tests. The pupils' knowledge of the four operations are consolidated and extended. This is exercised both mentally and written as a large emphasis is placed on problem solving, especially using real-life examples. Every effort is made to help the children realize that the subject is a lot of fun where games, projects and practical activities encourage pupils to use imagination and initiative. Non-verbal reasoning will continue in one of the 40 minute lessons to aid their sequencing and coding skills.

Key Objectives:

- Multiply and divide decimals mentally by 10 or 100, and integers by 1000, and explain the effect.
- Order a mixed set of numbers with up to three decimal places.
- Reduce a fraction to its simplest form by cancelling common factors.
- Use a fraction as an operator to find fractions of numbers or quantities (e.g. $\frac{5}{8}$ of 32, $\frac{7}{10}$ of 40, $\frac{9}{100}$ of 400 centimetres).
- To express probabilities as a fraction
- Calculate the perimeter and area of simple compound shapes that can be split into rectangles.
- To plot coordinates and be able to reflect and translate shapes
- To describe the properties of 3D shapes using correct terminology

These key objectives will be covered alongside others in the units of work in each term. The topic areas to be covered for the Summer Term are as follows:

- Properties of Number (Place value, factors, multiples, squares, primes and the four operations)
- Fractions, Decimals & Percentages
- Probability
- Area & Perimeter
- Transformations
- 2-D & 3-D shapes

Resources:

All pupils must bring the following equipment to all lessons:

Pencil, Rubber, Pencil Sharpener, 30cm Ruler, Protractor, Compass, Scientific Calculator (Casio FX-83GT PLUS), Colouring Pencils, Highlighter Pens, Glue Stick.

The students will use 'Maths on Target Year 5' (Stephen Pearce) by Elmwood Press as their main texts.

Also, supplementary material is as follows: 'Collins Primary Maths' Pupil Books 5 and 6 (ed. Peter Clarke) and the 'Cogitas Maths Challenge Cards' - yellow box.