



The Mall School

Curriculum Guide

Mathematics – Spring Term

Year 5

Teachers:	Mrs Juliet Tovey, Mr James Fair & Mr Martyn Miller
Lessons:	4 x 35min and 1 x 60min
Homework:	2 x 30-40min (Tuesday and Friday) NB one homework each week will be BOFA

Introduction:

This term the boys will follow the scheme of work aimed at the 11+ examinations. The pupils' knowledge of the four operations is 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.

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).
- Carry out column addition and subtraction of numbers involving decimals.
- Derive quickly division facts corresponding to multiplication tables up to 10×10 .
- Carry out short multiplication and division of numbers involving decimals.
- Carry out long multiplication of a three-digit by a two-digit integer.
- Use a protractor to measure acute and obtuse angles to the nearest degree.

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

- Revision of the 4 operations
- Properties of Number
- Angles
- Decimals and fractions
- Charts and graphs
- Area & Perimeter

The boys will also sit an examination in the first half of term.

Resources:

All pupils must bring the following equipment to all lessons:

Pencil, Rubber, Pencil Sharpener, 30cm Ruler, Protractor, Compass, Colouring Pencils, Highlighter Pens, Glue Stick and Scissors

The students will use Mathematics 5 from Galore Park as their main texts. Also, supplementary material is as follows: 'Maths on Target Year 5' (Stephen Pearce) by Elmwood Press, 'Collins Primary Maths' Pupil Books 5 and 6 (ed. Peter Clarke) and the 'Cogitas Maths Challenge Cards' - yellow box.