



The Mall School

Curriculum Guide

Mathematics – Summer Term

Year 6

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

Introduction:

The boys started the 13+ Common Entrance syllabus last term upon completion of all the 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

Key Objectives:

- Multiply and divide 3 digit by 2 digit whole nos; extend to multiplying and dividing decimals with 1 or 2 places by single digit whole numbers.
- Break a complex calculation into simpler steps, choosing and using appropriate and efficient operations and methods.
- To find equivalents in fractions, decimals and percentages. To find fractions and percentages of amounts.
- To revise basic statistics
- Calculate simple probabilities
- Calculate area and perimeter of compound shapes
- Construct nets of simple 3-D shapes
- Solve mathematical problems and puzzles in a range of contexts.
- Explain and justify methods and conclusions.

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
- Transformations
- Fractions, Decimals & Percentages
- Measures, Time & Calendar
- Probability & Handling Data
- Area & Perimeter
- Bearings & Scale
- 3-D shapes

Resources:

All boys must bring the following equipment to all lessons: Pencil, Rubber, Pencil Sharpener, 30cm Ruler and /or 15cm Ruler, Protractor, Compass, Scientific Calculator (Casio FX-83GT PLUS), Colouring Pencils, Highlighter Pens, Glue Stick, Scissors.

All boys have been issued with a textbook 'Essential MATHS 7i' by David Rayner. They also use: 'Collins Primary Maths' Pupil Books 6 and 6+ (ed. Peter Clarke), 'Extension Mathematics Alpha' (Tony Gardiner) by Oxford, 'Maths on Target Year 6' (Stephen Pearce) by Elmwood Press and 'Cogitas Maths Challenge Cards' - green box.