The Mall School

Curriculum Guide

Mathematics – Spring Term

Year 6

Teachers:	Dr Alistair Miller, Mr James Fair & Mr Martyn Miller
Lessons:	3 x 35 min, 1 x 60min and 1 x 70min
Homework:	2 x 30min (Monday & Thursday)

Introduction:
At the start of this term many of the boys will be sitting exams for their senior schools. As such, the first few weeks will be revising the main topic areas that will be apparent in these examinations. Afterwards, the boys will look at some investigative maths, start looking at more complex algebra as well as some project work and work involving ICT.

Key Objectives:
- Use letter symbols to represent unknown numbers or variables
- Recognise the equivalence of percentages, fractions and decimals.
- Know and use the order of operations.
- Extend mental methods of calculation to include decimals, fractions and percentages.
- 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.
- Convert one metric unit to another.
- Read and interpret scales on a range of measuring instruments.
- Solve mathematical problems and puzzles in a range of contexts.
- Explain and justify methods and conclusions.
- Understand the significance of a counter-example when looking for generality.

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:

- Sequences
- Calculations and word problems
- Bearings and Angles
- Word problems and puzzles
- Tangrams
- Algebra
- Formulae on Excel
- Transformations

Resources:
All boys must bring the following equipment to all lessons: Pencil, Rubber, Pencil Sharpener, 30cm Ruler and /or 15cm Ruler, Protractor, Compass, Colouring Pencils, Highlighter Pens, Glue Stick, Scissors.