



Rome International School

**Grade 5**

**9 – 10 years**

### **MATHEMATICS PROGRAMME**

<b>Scheme in Use:</b>	Abacus Number book Shape, measurement and data Enrichment workbook
<b>Supplementary Texts:</b>	Ginn Maths Book 3 Longmans Maths 5
<b>Assessment:</b>	Abacus Assessment Daily workout 5 – Mental maths tests End of year Standardised Attainment Tests

#### **Number and the number system**

- Read, write and understand whole numbers
- Multiply and divide any integer up to 10.000 by 10 or 100
- Use vocabulary of comparing and ordering, estimation and approximation
- Round any integer up to 10.000 to the nearest 10, 100 or 1000
- Order a set of positive and negative integers
- Recognise and extend number sequences
- Know square numbers, divisibility rules and find factors
- Order a set of fractions
- Solve simple problems using ideas of ratio and proportion
- Use decimal notation for tenths and hundredths
- Order a set of decimal numbers
- Relate fractions to their decimal representations
- Find percentages

#### **Calculations**

- Practise rapid recall of addition and subtraction facts
- Use a series of strategies for rapid addition and subtraction, multiplication and division
- Understand the relationship between multiplication and division
- Begin to use brackets
- Round up or down after division
- Know by heart and use all multiplication facts to 10 x 10
- Use a calculator to check and estimate results

#### **Solving problems**

- Choose appropriate operations to solve problems
- Explain methods used
- Solve puzzles, recognise patterns and relationships
- Use "real life" measures and money in problems

### **Measures, shape and space**

- Use standard metric units, convert larger to smaller units
- Suggest suitable units to measure and estimate length, mass or capacity
- Draw and measure lines to the nearest millimetre
- Read scales
- Understand area
- Calculate perimeters of regular polygons
- Use unit of time and read timetables

### **Shape and space**

- Recognise the properties of polygons
- Classify triangles
- Classify solids according to number of faces, vertices etc
- Recognise symmetry and complete symmetrical patterns
- Recognise parallel and perpendicular lines
- Measure angles in degrees using a protractor

### **Handling data**

- Discuss chance or likelihood of particular events
- Solve problems by representation of data in tables, charts and graphs