



Rome International School

Grade 4

8 – 9 years

MATHEMATICS PROGRAMME

Numbers and the number system

- Read and write numbers to 10.000
- Partition numbers into thousands, hundreds, tens and units
- Add/subtract, count on and back in ones, tens, hundreds and thousands from any whole number, up to 10.000
- Correct use of symbols including $<$, $>$, $=$
- Read, write and understand vocabulary of comparing, ordering, estimating and approximating
- Recognize negative numbers
- Recognize number sequences, odd and even numbers, multiples of 2, 3, 4, 5, and 10 up to tenth multiple
- Recognize simple fractions and mixed numbers and the equivalence of simple fractions
- Order simple fractions, relate fractions to division and begin to find fractions of numbers and quantities
- Understand decimal rotation
- Recognize equivalence between decimal rotation and fraction forms

Calculations

- Consolidate understanding of relationship between additions and subtraction and between multiplication and division. Practise rapid recall of addition and subtraction facts and multiplication and division facts
- Develop mental calculation strategies
- Use pencil and paper procedures for column addition and subtraction, for multiplying tens and units by units and dividing tens and units by units.
- Find remainders after division
- Use various strategies for checking calculations

Solving problems

- Make decisions about appropriate ways of solving problems, explain and reason chosen methods
- Use "real life" money and measures

Measures, shape and space

- Use standard metric measures and suggest suitable units to estimate and measure length, mass and capacity
- Measure area of rectangles and simple shapes
- Estimate and check times using seconds, minutes and hours
- Recognize and describe a range of 2D and 3D shapes
- Sketch reflections of shapes, identify symmetry
- Use compass directions
- Begin to know that angles are measured in degrees

Handling data

- Organize and interpret data from charts, tables, graphics and diagrams