

THE IONA SCHOOL CURRICULUM

NUMBER

CLASS 5

Class 4/5

Spring Term

Summer Term

Class 5/6

Autumn Term

Spring Term

Summer Term

- understands the relationship of decimals to place value
- handles simple data and can extract and interpret information based on a given topic
- uses long division and multiplication processes
- calculates sums using the decimal point in all processes
- understands various parts of fractions - numerator, denominator
- finds Lowest Common Multiple and Highest Common Factors
- use all four processes with fractions including Mixed Numbers and Improper Fractions
- can expand and reduce Equivalent Fractions
- can reduce fractions to their simplest terms
- finds a fraction of a given number
- recognises and can interchange decimals with common fractions
- carries out four processes with decimals



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- answers more complex mental arithmetic questions and narrative maths problems, applying the Rule of Three (if, then, therefore) to practical problems
- answers more complex mental arithmetic questions and narrative maths problems involving a mix of processes
- estimates answers before accurate calculation
- explains methods for approximating/justify
- calculates percentages
- converts percentages to fractions and vice versa
- can round off results to questions
- uses letters in formula - introduction to algebra
- understands the BODMAS rule to get the order of operations correct when making calculations

THE IONA SCHOOL CURRICULUM

SHAPE, SPACE AND MEASURE

CLASS 5

Class 4/5

Spring Term

Summer Term

Class 5/6

Autumn Term

Spring Term

Summer Term

- collects and illustrates data from experience based activities
- works with aspects of time, analogue and digital including 24 hour clock, A.M and P.M
- calculates average speeds
- draws freehand archetypal geometric shapes: different kinds of triangles, rectangles, quadrilaterals, polygons, circles
- draws parallel lines with a ruler and set square
- divides circles into 3, 4, 5, 6, 8, 9, 10,12, 24 parts, deriving regular figures like pentagons, hexagons, decagons and dodecagons from them
- uses a protractor with accuracy
- uses a compass with accuracy
- measures angles and can identify the names of different angles ; acute obtuse, reflex and right angles
- can construct different triangles - equilateral, isosceles, scalene, right angled, obtuse and acute
- has working knowledge of Pythagoras Theorem through practical activities
- tessellates simple shapes with accurate construction
- extended knowledge of area and perimeter
- has working knowledge of radius, diameter and circumference when constructing geometric shapes