PIANO

BY WONGCHANT

Curriculum Outline Year 5

A Guide for Year 5 Math Curriculum

YEAR 5

9-10 years

MODULE 1

UNIT 1

NUMBER: PLACE VALUE
- 1000s, 100s, 10s and 1s
- Numbers to 10,000
- Rounding to the nearest 10
- Rounding to the nearest 100
- Round to nearest 10, 100 and 1,000
- Numbers to 100,000
- Compare and order numbers to 100,000
- Round numbers within 100,000
- Numbers to a million
- Counting in 10s, 100s, 1,000s, 10,000s, and 100,000s
- Compare and order numbers to one million
- Round numbers to one million
- Negative numbers
- Roman Numerals to 1,000

UNIT 2

NUMBER: ADDITION & SUBTRACTION
- Add two 4-digit numbers - one exchange
- Add two 4-digit numbers - more than one exchange
- Add whole numbers with more than 4 digits (column method)
- Subtract two 4-digit numbers - one exchange
- Subtract two 4-digit numbers - more than one exchange
- Subtract whole numbers with more than 4 digits (column method)
- Round to estimate and approximate
- Inverse operations (addition and subtraction)
- Multi-step addition and subtraction problems

UNIT 3

STATISTICS
- Interpret charts
- Comparison, sum and difference
- Introduce line graphs
- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Read and interpret tables
- Two-way tables
- Timetables

UNIT 4

NUMBER: MULTIPLICATION & DIVISION
- Multiples
- Factors
- Common factors
- Prime numbers
- Square numbers
- Cube numbers
- Multiply by 10
- Multiply by 100
- Multiply by 10, 100 and 1,000
- Divide by 10
- Divide by 100
- Divide by 10, 100 and 1,000
- Multiples of 10, 100 and 1,000

UNIT 5

MEASUREMENT: PERIMETER & AREA
- Measure perimeter
- Perimeter on a grid
- Perimeter of rectangles
- Perimeter of rectilinear shapes
- Calculate perimeter
- Counting squares
- Area of rectangles
- Area of compound shapes
- Area of irregular shapes

MODULE 2

UNIT 1

NUMBER: MULTIPLICATION AND DIVISION
- ➢ Multiply 2-digits by 1-digit
- ➢ Multiply 3-digits by 1-digit
- ➢ Multiply 4-digits by 1-digit
- ➢ Multiply 2-digits (area model)
- ➢ Multiply 2-digits by 2-digits
- ➢ Multiply 3-digits by 2-digits
- ➢ Multiply 4-digits by 2-digits
- ➢ Divide 2-digits by 1-digit (1)
- ➢ Divide 2-digits by 1-digit (2)
- ➢ Divide 3-digits by 1-digit
- ➢ Divide 4-digits by 1-digit
- ➢ Divide with remainders

UNIT 3

NUMBER: DECIMALS & PERCENTAGES
- ➢ Decimals up to 2 d.p.
- ➢ Decimals as fractions (1)
- ➢ Decimals as fractions (2)
- ➢ Understand thousandths
- ➢ Thousandths as decimals
- ➢ Rounding decimals
- ➢ Order and compare decimals
- ➢ Understand percentages
- ➢ Percentages as fractions and decimals
- ➢ Equivalent F.D.P.

UNIT 2

NUMBER: FRACTIONS
- ➢ What is a fraction?
- ➢ Equivalent fractions (1)
- ➢ Equivalent fractions
- ➢ Fractions greater than 1
- ➢ Improper fractions to mixed numbers
- ➢ Mixed numbers to improper fractions
- ➢ Number sequences
- ➢ Compare and order fractions less than 1
- ➢ Compare and order fractions greater than 1
- ➢ Add and subtract fractions
- ➢ Add fractions within 1
- ➢ Add 3 or more fractions
- ➢ Add fractions
- ➢ Add mixed numbers
- ➢ Subtract fractions
- ➢ Subtract mixed numbers
- ➢ Subtract – breaking the whole
- ➢ Subtract 2 mixed numbers
- ➢ Multiply unit fractions by an integer
- ➢ Multiply non-unit fractions by an integer
- ➢ Multiply mixed numbers by integers
- ➢ Calculate fractions of a quantity
- ➢ Fraction of an amount
- ➢ Using fractions as operators

MODULE 3

UNIT 1

NUMBER: DECIMALS

- ➢ Adding decimals within 1
- ➢ Subtracting decimals within 1
- ➢ Complements to 1
- ➢ Adding decimals – crossing the whole
- ➢ Adding decimals with the same number of decimal places
- ➢ Subtracting decimals with the same number of decimal places
- ➢ Adding decimals with a different number of decimal places
- ➢ Subtracting decimals with a different number of decimal places
- ➢ Adding and subtracting wholes and decimals
- ➢ Decimal sequences
- ➢ Multiplying decimals by 10, 100 and 1,000
- ➢ Dividing decimals by 10, 100 and 1,000

UNIT 2

GEOMETRY: PROPERTIES OF SHAPE

- ➢ Identify angles
- ➢ Compare and order angles
- ➢ Measure angles in degrees
- ➢ Measuring with a protractor (1)
- ➢ Measuring with a protractor (2)
- ➢ Drawing lines and angles accurately
- ➢ Calculating angles on a straight line
- ➢ Calculating angles around a point
- ➢ Triangles
- ➢ Quadrilaterals
- ➢ Calculating lengths and angles in shapes
- ➢ Regular and irregular polygons
- ➢ Reasoning about 3-D shapes

UNIT 3

GEOMETRY: POSITION & DIRECTION

- ➢ Describe position
- ➢ Draw on a grid
- ➢ Position in the first quadrant
- ➢ Translation
- ➢ Translation with coordinates
- ➢ Lines of symmetry
- ➢ Complete a symmetric figure
- ➢ Reflection
- ➢ Reflection with coordinates

UNIT 4

MEASUREMENT: CONVERTING UNITS

- ➢ Kilometres
- ➢ Kilograms and kilometres
- ➢ Millimetres and millilitres
- ➢ Metric units
- ➢ Imperial units
- ➢ Converting units of time
- ➢ Timetables

UNIT 5

MEASUREMENT: VOLUME

- ➢ What is volume?
- ➢ Compare volume
- ➢ Estimate volume
- ➢ Estimate capacity