PIANO
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Curriculum Outline Year 4

A Guide for Year 4 Math Curriculum

YEAR 4

8-9 years

MODULE 1

UNIT 1 — NUMBER: PLACE VALUE
- Represent numbers to 1,000
- 100s, 10s and 1s
- Number line to 1,000
- Round to the nearest 10
- Round to the nearest 100
- Count in 1,000s
- 1,000s, 100s, 10s and 1s
- Partitioning
- Number line to 10,000
- Find 1, 10, 100 more or less
- 1,000 more or less
- Compare numbers
- Order numbers
- Round to the nearest 1,000
- Count in 25s
- Negative numbers
- Roman numerals to 100

UNIT 2 — NUMBER: ADDITION & SUBTRACTION
- Add and subtract 1s, 10s, 100s and 1,000s
- Add two 3-digit numbers - not crossing 10 or 100
- Add two 4-digit numbers – no exchange
- Add two 3-digit numbers - crossing 10 or 100
- Add two 4-digit numbers – one exchange
- Add two 4-digit numbers – more than one exchange
- Subtract a 3-digit number from a 3-digit number - no exchange
- Subtract two 4-digit numbers – no exchange
- Subtract a 3-digit number from a 3-digit number - exchange
- Subtract two 4-digit numbers – one exchange
- Subtract two 4-digit numbers – more than one exchange
- Efficient subtraction
- Estimate answers
- Checking strategies

UNIT 3 — MEASUREMENT: LENGTH & PERIMETER
- Equivalent lengths - m and cm
- Equivalent lengths - mm and cm
- Kilometres
- Add lengths
- Subtract lengths
- Measure perimeter
- Perimeter on a grid
- Perimeter of a rectangle
- Perimeter of rectilinear shapes

UNIT 4 — NUMBER: MULTIPLICATION & DIVISION
- Multiply by 10
- Multiply by 100
- Divide by 10
- Divide by 100
- Multiply by 1 and 0
- Divide by 1 and itself
- Multiply and divide by 3
- The 3 times-table
- Multiply and divide by 6
- 6 times table and division facts
- Multiply and divide by 9
- 9 times table and division facts
- Multiply and divide by 7
- 7 times table and division facts

MODULE 2

UNIT 1 — NUMBER: MULTIPLICATION AND DIVISION

- 11 and 12 times-table
- Multiply 3 numbers
- Factor pairs
- Efficient multiplication
- Written methods
- Multiply 2-digits by 1-digit (1)
- Multiply 2-digits by 1-digit
- Divide 2-digits by 1-digit (1)
- Divide 2-digits by 1-digit (1)
- Divide 2-digits by 1-digit (2)
- Divide 2-digits by 1-digit (2)
- Divide 3-digits by 1-digit
- Correspondence problems

UNIT 3 — NUMBER: FRACTIONS

- Unit and non-unit fractions
- What is a fraction?
- Tenths
- Count in tenths
- Equivalent fractions (1)
- Equivalent fractions (2)
- Equivalent fractions (1)
- Equivalent fractions (2)
- Fractions greater than 1
- Count in fractions
- Add fractions
- Add 2 or more fractions
- Subtract fractions
- Subtract 2 fractions
- Subtract from whole amounts
- Fractions of a set of objects (1)
- Fractions of a set of objects (2)
- Calculate fractions of a quantity
- Problem solving – calculate quantities

UNIT 2 — MEASUREMENT: AREA

- What is area?
- Counting squares
- Making shapes
- Comparing area

UNIT 4 — NUMBER: DECIMALS

- Recognise tenths and hundredths
- Tenths as decimals
- Tenths on a place value grid
- Tenths on a number line
- Divide 1-digit by 10
- Divide 2-digits by 10
- Hundredths
- Hundredths as decimals
- Hundredths on a place value grid
- Divide 1 or 2-digits by 100

MODULE 3

UNIT 1
NUMBER: DECIMALS
- Bonds to 10 and 100
- Make a whole
- Write decimals
- Compare decimals
- Order decimals
- Round decimals
- Halves and quarters

UNIT 3
MEASUREMENT: TIME
- Telling the time to 5 minutes
- Telling the time to the minute
- Using a.m. and p.m.
- 24-hour clock
- Hours, minutes and seconds
- Years, months, weeks and days
- Analogue to digital – 12 hour
- Analogue to digital – 24 hour

UNIT 4
STATISTICS
- Interpret charts
- Comparison, sum and difference
- Introducing line graphs
- Line graphs

UNIT 2
MEASUREMENT: MONEY
- Pounds and pence
- Ordering money
- Estimating money
- Convert pounds and pence
- Add money
- Subtract money
- Find change
- Four operations

UNIT 5
GEOMETRY: PROPERTIES OF SHAPE
- Turns and angles
- Right angles in shapes
- Compare angles
- Identify angles
- Compare and order angles
- Recognise and describe 2-D shapes
- Triangles
- Quadrilaterals
- Horizontal and vertical
- Lines of symmetry
- Complete a symmetric figure

UNIT 6
GEOMETRY: POSITION & DIRECTION
- Describe position
- Draw on a grid
- Move on a grid
- Describe movement on a grid