Year 3 and 4 Maths - Small Step Progression - Newbrough and Wark C of E Primary Schools

Year 3 objectives Year 4 objectives

Place Value - (Can be Split into 2 groups)

1. Represent numbers to 100/1000
2. Partition numbers to 100/1000
3. Number line to 100/1000
4. Hundreds/Thousands
5. Represent numbers to 1,000/10,000

Addition and Subtraction 1

1. Add and subtract multiples of 100
2. Add and subtract 3-digit and 1-digit numbers (not crossing 10)
3. Add and subtract 3-digit and 2-digit (not crossing 100)
4. Add and subtract 100s
5. Spot the pattern

Multiplication and division 1

1. Multiplication - Equal groups
2. Use Arrays
3. Sharing and grouping

Area, Length and Perimeter

1. Measure in metres and centimetres
2. Measure in millimetres
3. Measure in centimetres and millimetres
4. Metres, centimetres and millimetres
5. Measure in kilometres and metres

Fractions 1

1. What is a fraction?
2. Unit and non-unit fractions
3. Making the whole
4. Fractions on a numberline
5. Fractions greater than 1

Decimals 1

1. Tenths
2. Count in tenths
3. Tenths as decimals
4. Tenths and hundredths
5. Tenths as decimals

Time 1

1. Months and years
2. Hours in a day
3. Hours, minutes and seconds
4. Years, months, weeks and days

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Position and direction 1

1. Turn and angles
2. Right angles in shapes
3. Compare angles
4. Identify angles
5. Compare and order angles

Place Value 2 (Can be Split into 2 groups)

1. Partition numbers to 1,000/10,000
2. Flexible partitioning of numbers to 1,000/10,000
3. Thousands, Hundreds, tens and ones
4. Find 1, 10 or 100/1000 more or less

Addition and Subtraction 2

1. Add and subtract 1s, 10s, 100s, 1000s
2. Add 3-digit and 1-digit (crossing 10)
3. Add 3-digit and 2-digit (crossing 100)
4. Add two 3-digit numbers (not crossing)
5. Add two 3-digit numbers (crossing)

Multiplication and Division 2

1. Multiply by 10
2. Divide by 10
3. Multiply by 100
4. Divide by 100
5. Multiply by 1 and 0
6. Dividing by 1 and itself

Area, Length and Perimeter 2

1. Equivalent lengths (metres and centimetes)
2. Equivalent lengths (centimetres and milimetres)
3. Equivalent lengths (kilometres and metres)
4. Compare lengths
5. Add lengths
6. Subtract lengths

Fractions 2

1. Count in fractions
2. Equivalent fractions
3. Equivalent fractions
4. Compare fractions
5. Order fractions

Statistics 1

1. Pictograms
2. Bar charts
3. Interpret charts

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Place Value 3 (Can be Split into 2 groups)

1. Number line to 1,000/10,000
2. Estimate on a number line to 1,000/10,000
3. Compare numbers to 1,000/10,000
4. Order numbers to 1,000/10,000
5. Count in 50s

Addition and Subtraction 3

1. Add two 4-digit numbers (no regrouping)
2. Add two 4-digit numbers (regrouping)
3. Add two 4-digit numbers more than 1 exchange
4. Subtract two numbers (across a 10)
5. Subtract two numbers (across a 100)

Multiplication and Division 3

1. Related calculations
2. Multiply 3 numbers
3. Efficient multiplication
4. Factor pairs
5. Written methods (2-digits on a numberline)

Area, Length and Perimeter 3

1. What is area?
2. Count squares
3. Make shapes
4. Compare areas

Decimals 2

1. Tenths on a place value grid
2. Tenths on a number line
3. Divide 1 digit by 10
4. Divide 2-digits by 10
5. Hundredths as decimals
6. Hundredths on a PV grid

Position and Direction 2

1. Draw accurately
2. Horizontal and vertical
3. Parallel and perpendicular
4. 2-d shapes
5. Triangles

Place Value 4

1. Round to the nearest 10
2. Round to the nearest 100
3. Round to the nearest 1000
4. Roman Numerals

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Addition and Subtraction 4

1. Subtract two 4-digit numbers – one exchange
2. Subtract two 4-digit numbers – more than one exchange
3. Add 2-digit and 3-digit numbers
4. Subtract a 2-digit number from a 3-digit number
5. Complements to 100

Multiplication and Division 4

1. Multiply 2-digit by 1 (no exchanges) *
2. Multiply 2-digit by 1 (exchanges) *
3. Multiply 3-digit by 1 (Y3 may need x-table grid for X 6 and 7)
4. Divide 2-digit by 1 (1) *
5. Divide 2-digit by 1 (2) *

Area, Length and Perimeter 4

1. What is perimeter?
2. Measure perimeter
3. Calculate perimeter
4. Perimeter on a grid
5. Perimeter of a rectangle
6. Perimeter of rectilinear shapes

Fractions 3

1. Fractions of an amount 1
2. Fractions of an amount 2
3. Fractions of quantity
4. Calculate quantities (inverse)

Decimals 3

1. Divide 1 or 2 digits by 100
2. Compare decimals
3. Order decimals round decimals
4. Pounds and pence
5. Convert pounds and pence

Time 2

1. Telling the time
2. Using am and pm
3. 24-hour clock
4. Analogue to digital 12-hour
5. Analogue to digital 24-hour

Measures

1. Measure mass
2. Compare mass
3. Add and subtract mass
4. Measure capacity
5. Compare capacity

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6. Add and subtract capacity

Position and Direction 3

1. Quadrilaterals
2. 3-d shapes
3. Construct 3-d shapes
4. Lines of symmetry
5. Symmetry

Addition and Subtraction 5

1. Estimate answers
2. Estimate answers
3. Inverse operations
4. Make decisions
5. Efficient subtraction
6. Checking strategies

Multiplication and Division 5

1. Divide 2-digit by 1 (3) (Remainders)
2. Divide 3-digit by 1
3. Scaling
4. How many ways
5. Correspondence problems

Area, Length and Perimeter 5

1. Find the missing lengths of rectilinear shapes
2. Calculate the perimeter of rectilinear shapes
3. Perimeter of regular polygons
4. Perimeter of polygons

Fractions 4

1. Add fractions
2. Subtract fractions
3. Add 2 or more fractions
4. Subtract 2 fractions
5. Subtract from the whole

Decimals 4

1. Pounds and pence
2. Ordering money
3. Estimating money
4. Add money
5. Subtract money
6. Give change

Time 3

1. Finding the duration
2. Comparing the duration
3. Start and end times

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4. Measuring in seconds

Statistics 2

1. Comparison, sum and difference
2. Tables
3. Introducing line graphs
4. Line graphs

Position and Direction 4

1. Describe position
2. Draw on a grid
3. Move on a grid
4. Describe movement

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Place Value 1	Addition and Subtraction 1	Multiplication and Division 1	Area, Length and Perimeter 1	Fractions 1	Decimals 1
Time 1	Position and Direction 1	Place Value 2	Addition and Subtraction 2	Multiplication and Division 2	Area, Length and Perimeter 2
Fractions 2	Statistics 1	Place Value 3	Addition and Subtraction 3	Multiplication and Division 3	Area, Length and Perimeter 3
Decimals 2	Position and Direction 2	Place Value 4	Addition and Subtraction 4	Multiplication and Division 4	Area, Length and Perimeter 4
Fractions 3	Decimals 3	Time 2	Measures	Position and Direction 3	Addition and Subtraction 5
Multiplication and Division 5	Area, Length and Perimeter 5	Fractions 4	Decimals 4	Time 3	Statistics 2
Position and Direction 4					