



Salhouse Primary School
Year 4/5 Mixed Age Maths Scheme of Learning

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 | Week 14 |
|--------|---|--------|--------------------------------------|----------------------------------|--------|-----------------------------------|---------------------------------------|--------|------------------------------------|---------------------|-----------------|---------|---------|-------------------------------|
| Autumn | Number: Place value | | | Number: Addition and subtraction | | | Number: Multiplication and division A | | | Number: Fractions A | | | | Multiplication and division B |
| Spring | Multiplication and division B | | Measurement: length, area, perimeter | | | Number: Decimals (Y5 percentages) | | | Fractions B (Year 4 consolidation) | | Geometry: Shape | | | |
| | | | Y5 Number: negative numbers | | | | | | | | | | | |
| Summer | Measurement (Y4 money, Y5 converting units) | | Decimals B | | | Measurement (Y4 time, Y5 volume) | | | Geometry (position and direction) | | Statistics | | | |

Place Value

Year 4

| New scheme steps |
|--|
| Represent numbers to 1,000 |
| Partition numbers to 1,000 |
| Number line to 1,000 |
| Thousands |
| Represent numbers to 10,000 |
| Partition numbers to 10,000 |
| Flexible partitioning of numbers to 10,000 |
| Find 1, 10, 100, 1,000 more or less |
| Number line to 10,000 |
| Estimate on a number line to 10,000 |
| Compare numbers to 10,000 |
| Order numbers to 10,000 |
| Roman numerals |
| Round to the nearest 10 |
| Round to the nearest 100 |
| Round to the nearest 1,000 |
| Round to the nearest 10, 100 or 1,000 |

Year 5

| New scheme steps |
|--|
| Numbers to 10,000 |
| Numbers to 100,000 |
| Numbers to 1,000,000 |
| Read and write numbers to 1,000,000 |
| Powers of 10 |
| 10/100/1,000/10,000/100,000 more or less |
| Partition numbers to 1,000,000 |
| Number line to 1,000,000 |
| Compare and order numbers to 100,000 |
| Compare and order numbers to 1,000,000 |
| Round to the nearest 10, 100 or 1,000 |
| Round within 100,000 |
| Round within 1,000,000 |

Addition and Subtraction

| New scheme steps |
|---|
| Add and subtract 1s, 10s, 100s and 1,000s |
| Add up to two 4-digit numbers - no exchange |
| Add two 4-digit numbers - one exchange |
| Add two 4-digit numbers- more than one exchange |
| Subtract two 4-digit numbers - no exchange |
| Subtract two 4-digit numbers - one exchange |
| Subtract two 4-digit numbers - more than one exchange |
| Efficient subtraction |
| Estimate answers |
| Checking strategies |

| New scheme steps |
|---|
| Mental strategies |
| Add whole numbers with more than four digits |
| Subtract whole numbers with more than four digits |
| Round to check answers |
| Inverse operations (addition and subtraction) |
| Multi-step addition and subtraction problems |
| Compare calculations |
| Find missing numbers |

Multiplication and Division A

| New scheme steps |
|-----------------------------------|
| Multiples of 3 |
| Multiply and divide by 6 |
| 6 times-table and division facts |
| Multiply and divide by 9 |
| 9 times-table and division facts |
| The 3, 6 and 9 times-tables |
| Multiply and divide by 7 |
| 7 times-table and division facts |
| 11 times-table and division facts |
| 12 times-table and division facts |
| Multiply by 1 and 0 |
| Divide by 1 and itself |
| Multiply three numbers |

| New scheme steps |
|--------------------------------|
| Multiples |
| Common multiples |
| Factors |
| Common factors |
| Prime numbers |
| Square numbers |
| Cube numbers |
| Multiply by 10, 100 and 1,000 |
| Divide by 10, 100 and 1,000 |
| Multiples of 10, 100 and 1,000 |

Fractions A

| New scheme steps |
|---|
| Understand the whole |
| Count beyond 1 |
| Partition a mixed number |
| Number lines with mixed numbers |
| Compare and order mixed numbers |
| Understand improper fractions |
| Convert mixed numbers to improper fractions |
| Convert improper fractions to mixed numbers |
| Equivalent fractions on a number line |
| Equivalent fraction families |
| Add two or more fractions |
| Add fractions and mixed numbers |
| Subtract two fractions |
| Subtract from whole amounts |
| Subtract from mixed numbers |

| New scheme steps |
|--|
| Find fractions equivalent to a unit fraction |
| Find fractions equivalent to a non-unit fraction |
| Recognise equivalent fractions |
| Convert improper fractions to mixed numbers |
| Convert mixed numbers to improper fractions |
| Compare fractions less than 1 |
| Order fractions less than 1 |
| Compare and order fractions greater than 1 |
| Add and subtract fractions with the same denominator |
| Add fractions within 1 |
| Add fractions with total greater than 1 |
| Add to a mixed number |
| Add two mixed numbers |
| Subtract fractions |
| Subtract from a mixed number |
| Subtract from a mixed number - breaking the whole |
| Subtract two mixed numbers |

Multiplication and Division B

| New scheme steps |
|---|
| Factor pairs |
| Use factor pairs |
| Multiply by 10 |
| Multiply by 100 |
| Divide by 10 |
| Divide by 100 |
| Related facts – multiplication and division |
| Informal written methods for multiplication |
| Multiply a 2-digit number by a 1-digit number |
| Multiply a 3-digit number by a 1-digit number |
| Divide a 2-digit number by a 1-digit number (1) |
| Divide a 2-digit number by a 1-digit number (2) |
| Divide a 3-digit number by a 1-digit number |
| Correspondence problems |
| Efficient multiplication |

| New scheme steps |
|--|
| Multiply up to a 4-digit number by a 1-digit number |
| Multiply a 2-digit number by a 2-digit number (area model) |
| Multiply a 2-digit number by a 2-digit number |
| Multiply a 3-digit number by a 2-digit number |
| Multiply a 4-digit number by a 2-digit number |
| Solve problems with multiplication |
| Short division |
| Divide a 4-digit number by a 1-digit number |
| Divide with remainders |
| Efficient division |
| Solve problems with multiplication and division |

Measurement: length, area, perimeter.

| New scheme steps |
|------------------|
| What is area? |
| Counting squares |
| Make shapes |
| Compare area |

| |
|---|
| Measure in kilometres and metres |
| Equivalent lengths (kilometres and metres) |
| Perimeter on a grid |
| Perimeter of a rectangle |
| Perimeter of rectilinear shapes |
| Find missing lengths in rectilinear shapes |
| Calculate the perimeter of rectilinear shapes |
| Perimeter of regular polygons |
| Perimeter of polygons |

Y5 Number: negative numbers

| New scheme steps |
|---------------------------------|
| Perimeter of rectangles |
| Perimeter of rectilinear shapes |
| Perimeter of polygons |
| Area of rectangles |
| Area of compound shapes |
| Estimate area |

| New scheme steps |
|------------------------------------|
| Understand negative numbers |
| Count through zero in 1s |
| Count through zero in multiples |
| Compare and order negative numbers |
| Find the difference |

Decimals (Y5 incl. percentages)

| New scheme steps |
|-------------------------------------|
| Tenths as fractions |
| Tenths as decimals |
| Tenths on a place value chart |
| Tenths on a number line |
| Divide a 1-digit number by 10 |
| Divide a 2-digit number by 10 |
| Hundredths as fractions |
| Hundredths as decimals |
| Hundredths on a place value chart |
| Divide a 1 or 2-digit number by 100 |

| New scheme steps |
|--|
| Decimals up to 2 decimal places |
| Equivalent fractions and decimals (tenths) |
| Equivalent fractions and decimals (hundredths) |
| Equivalent fractions and decimals |
| Thousandths as fractions |
| Thousandths as decimals |
| Thousandths on a place value chart |
| Order and compare decimals (same number of decimal places) |
| Order and compare any decimals with up to 3 decimal places |
| Round to the nearest whole number |
| Round to 1 decimal place |
| Understand percentages |
| Percentages as fractions |
| Percentages as decimals |
| Equivalent fractions, decimals and percentages |

Fractions B

| New scheme steps |
|-----------------------------------|
| Make a whole with tenths |
| Make a whole with hundredths |
| Partition decimals |
| Flexibly partition decimals |
| Compare decimals |
| Order decimals |
| Round to the nearest whole number |
| Halves and quarters as decimals |

| New scheme steps |
|--|
| Multiply a unit fraction by an integer |
| Multiply a non-unit fraction by an integer |
| Multiply a mixed number by an integer |
| Calculate a fraction of a quantity |
| Fraction of an amount |
| Find the whole |
| Use fractions as operators |

Geometry: Shape

| New scheme steps |
|-----------------------------|
| Understand angles as turns |
| Identify angles |
| Compare and order angles |
| Triangles |
| Quadrilaterals |
| Polygons |
| Lines of symmetry |
| Complete a symmetric figure |

| New scheme steps |
|-------------------------------------|
| Understand and use degrees |
| Classify angles |
| Estimate angles |
| Measure angles up to 180° |
| Draw lines and angles accurately |
| Calculate angles around a point |
| Calculate angles on a straight line |
| Lengths and angles in shapes |
| Regular and irregular polygons |
| 3-D shapes |

Measurement: Y4 money, Y5 converting units

| New scheme steps |
|----------------------------------|
| Write money using decimals |
| Convert between pounds and pence |
| Compare amounts of money |
| Estimate with money |
| Calculate with money |
| Solve problems with money |

| New scheme steps |
|---|
| Kilograms and kilometres |
| Millimetres and millilitres |
| Convert units of length |
| Convert between metric and imperial units |
| Convert units of time |
| Calculate with timetables |

Decimals B

| New scheme steps |
|-----------------------------------|
| Make a whole with tenths |
| Make a whole with hundredths |
| Partition decimals |
| Flexibly partition decimals |
| Compare decimals |
| Order decimals |
| Round to the nearest whole number |
| Halves and quarters as decimals |

| New scheme steps |
|--|
| Use known facts to add and subtract decimals within 1 |
| Complements to 1 |
| Add and subtract decimals across 1 |
| Add decimals with the same number of decimal places |
| Subtract decimals with the same number of decimal places |
| Add decimals with different numbers of decimal places |
| Subtract decimals with different numbers of decimal places |
| Efficient strategies for adding and subtracting decimals |
| Decimal sequences |
| Multiply by 10, 100 and 1,000 |
| Divide by 10, 100 and 1,000 |
| Multiply and divide decimals - missing values |

Measurement (Y4 time, Y5 volume)

| New scheme steps |
|--|
| Years, months, weeks and days |
| Hours, minutes and seconds |
| Convert between analogue and digital times |
| Convert to the 24 hour clock |
| Convert from the 24 hour clock |

| New scheme steps |
|-------------------|
| Cubic centimetres |
| Compare volume |
| Estimate volume |
| Estimate capacity |

Geometry (position and direction)

| New scheme steps |
|-------------------------------------|
| Describe position using coordinates |
| Plot coordinates |
| Draw 2-D shapes on a grid |
| Translate on a grid |
| Describe translation on a grid |

| New scheme steps |
|---|
| Read and plot coordinates |
| Problem solving with coordinates |
| Translation |
| Translation with coordinates |
| Lines of symmetry |
| Reflection in horizontal and vertical lines |

Statistics

| New scheme steps |
|--------------------------------|
| Interpret charts |
| Comparison, sum and difference |
| Interpret line graphs |
| Draw line graphs |

| New scheme steps |
|--------------------------------|
| Draw line graphs |
| Read and interpret line graphs |
| Read and interpret tables |
| Two-way tables |
| Read and interpret timetables |