

Maths Long Term Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Pupils will build on previous experiences of number from their home and nursery environments and further develop their subitising and counting skills. They will explore the composition of numbers within 5. They will begin to compare sets of objects.		Pupils will continue to develop their subitising and counting skills and explore the composition of numbers within and beyond 5. They will begin to identify when two sets are equal or unequal and connect two equal groups to doubles.		Having started to connect quantities to numerals, pupils will consolidate their counting skills, counting to larger numbers and developing a wider range of counting strategies. They will secure knowledge of number facts through varied practise.	
Year 1	Place value (within 10)	Addition & subtraction (within 10) Shape	Place value (within 20) Addition and subtraction (within 20)	Place value (within 50) Length & height Mass & volume	Position & direction Fractions Multiplication & division	Place value (within 100) Money Time
Year 2	Place value	Addition & subtraction Shape	Shape Multiplication & division	Fractions Length & height Mass, capacity & temperature	Position & direction Statistics 4 operations consolidation	Money Time
Year 3	Number Place value Addition & subtraction	Money Multiplication & division Shape	Multiplication & division Length & perimeter	Fractions Mass & capacity	Fractions Time Area	Money Shape Statistics
Year 4	Number Place value Addition & subtraction	Money Multiplication & division Position and Direction	Multiplication & division Length & perimeter	Fractions Mass & capacity	Fractions Time Area	Decimals Shape Statistics
Year 5	Place value Addition & subtraction	Multiplication & division Fractions	Multiplication & division Fractions	Decimals & percentages Perimeter & area	Statistics Shape Position & direction	Decimals Negative numbers Converting units Volume
Year 6	Place value Addition, subtraction, multiplication & division	Fractions Position and Direction Fractions	Decimals Fractions, decimals and percentages Ratio	Area, perimeter & volume Shape Converting Units	Algebra Statistics Revision	<i>Problem solving and themed projects, related to topic learning E.g., theme parks</i>



Medium Term Plan Year 1 | Autumn 1



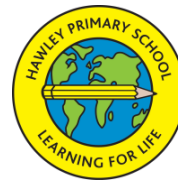
Medium Term Plan Year 2 | Autumn 1

Domain		Learning objectives
Place Value (within 10) 6 weeks	Week 1	LO: To sort objects LO: To count objects
	Week 2	LO: To count objects from a larger group LO: To represent objects using counters
	Week 3	LO: To recognise numbers as words LO: To count on from any number
	Week 4	LO: To find 1 more LO: To count backwards within 10 LO: To find 1 less
	Week 5	LO: To compare groups by matching LO: To find fewer, more and the same LO: To find less than, greater than and equal to
	Week 6	LO: To compare numbers LO: To order numbers and objects LO: To place numbers on a number line

Domain	Learning objectives
Place Value 5 weeks	LO: To represent numbers to 20 LO: To represent numbers to 100 LO: To use a place value grid to represent tens and ones LO: To partition numbers to 100 LO: To write numbers to 100 in words LO: To write numbers to 100 in expanded form LO: To count in multiples of 10 on a number line LO: To represent tens and ones on a number line LO: To estimate number son a number line LO: To compare objects LO: To compare numbers LO: To order objects and numbers LO: To count in 2s, 5s and 10s LO: To count in 3s



Medium Term Plan Year 1 | Autumn 2



Medium Term Plan Year 2 | Autumn 2

Domain		Learning objectives
Addition and Subtraction (within 10) 5 weeks	Week 1	LO: To use a part-whole model LO: To write number sentences
	Week 2	LO: To use addition fact families LO: To use number bonds within 10 LO: To use number bonds to 10
	Week 3	LO: To add numbers together LO: To add more LO: To solve addition problems
	Week 4	LO: To find a part LO: To use the subtraction symbol LO: To write addition and subtraction fact families
	Week 5	LO: To find how many left LO: To subtract using a number line LO: To add or subtract 1 or 2
	Shape 1 week	LO: To recognise and name 2D shapes LO: To recognise and name 3D shapes LO: To sort shapes
Addition and Subtraction 5 weeks		LO: To use number bonds to 10 LO: To use fact families to 20 LO: To use related facts to calculate number bonds to 100 LO: To add and subtract 1s LO: To add by making 10 LO: To add three 1-digit numbers LO: To add to the next 10 LO: To add across a ten LO: To subtract across a ten LO: To subtract from a ten LO: To subtract a 1-digit number from a 2-digit number (<i>across a ten</i>) LO: To find 10 more and 10 less LO: To add and subtract 10s LO: To add two 2-digit numbers (<i>not across a ten</i>) LO: To add two 2-digit numbers (<i>across a ten</i>) LO: To subtract two 2-digit numbers (<i>not across a ten</i>) LO: To subtract two 2-digit numbers (<i>across a ten</i>) LO: To solve addition and subtraction problems LO: To compare number sentences LO: To solve missing number problems
Shape 1 week		LO: To recognise 2D shapes LO: To recognise 3D shapes LO: To count the sides and vertices on 2D shapes LO: To draw 2D shapes



Medium Term Plan

Year 1 | Spring 1



Medium Term Plan

Year 2 | Spring 1

Domain		Learning objectives
Place Value (within 20) 3 weeks	Week 1	LO: To count within 20 LO: To understand 10 LO: To understand 11, 12 and 13 LO: To understand 14, 15 and 16
	Week 2	LO: To understand 17, 18 and 19 LO: To understand 20 LO: To find 1 more and 1 less
	Week 3	LO: To use a number line to 20 LO: To estimate on a number line to 20 LO: To compare and order numbers to 20
Addition and Subtraction (within 20) 3 weeks	Week 4	LO: To add by counting on LO: To add ones using number bonds LO: To find and makes number bonds to 20
	Week 5	LO: To recognise doubles LO: To recognise near doubles LO: To subtract ones using number bonds
	Week 6	LO: To count back LO: To find the difference LO: To use related facts LO: To solve missing number problems

Domain	Learning objectives
Shape 1 week	LO: To identify lines of symmetry on shapes LO: To use lines of symmetry to complete shapes LO: To sort 2D shapes LO: To count faces on 3D shapes LO: To count the sides and vertices on 3D shapes LO: To sort 3D shapes LO: To make patterns with 2D and 3D shapes
Multiplication and Division 4 weeks	LO: To recognise equal groups LO: To make equal groups LO: To add equal groups LO: To use the multiplication symbol LO: To complete multiplication sentences LO: To use arrays to multiply LO: To make equal groups (<i>grouping</i>) LO: To make equal groups (<i>sharing</i>) LO: To use the 2 times table LO: To divide by 2 LO: To double and halve LO: To identify odd and even numbers LO: To use the 10 times table LO: To divide by 10 LO: To use the 5 times table LO: To divide by 5 LO: To use the 5- and 10- times table



Medium Term Plan Year 1 | Spring 2



Medium Term Plan Year 2 | Spring 2

Domain		Learning objectives
Place Value (within 50) 3 weeks	Week 1	LO: To count from 20 to 50 LO: To count in tens to 50
	Week 2	LO: To count in groups of tens and ones LO: To partition into tens and ones
	Week 3	LO: To place numbers on a number line to 50 LO: To estimate on a number line to 50 LO: To find 1 more or 1 less
Length and Height 1 week	Week 4	LO: To compare lengths and heights LO: To measure length using objects LO: To measure length in centimetres
Mass and Volume 2 weeks	Week 5	LO: To describe an object using heavier or lighter LO: To measure mass LO: To compare mass
	Week 6	LO: To describe a container as full or empty LO: To compare volume LO: To measure capacity LO: To compare capacity
Fractions 3 weeks		LO: To know the difference between a part and a whole LO: To explore equal and unequal parts LO: To recognise and find a half LO: To recognise and find a quarter LO: To recognise and find a third LO: To find the whole (<i>how many equal parts</i>) LO: To recognise a unit fraction LO: To recognise a non-unit fraction LO: To recognise the equivalence between one half and two quarters LO: To recognise and find three-quarters LO: To count in fractions up to a whole
Length and Height 1 week		LO: To compare and order lengths and heights LO: To measure in centimetres LO: To measure in metres LO: To solve problems involving length and height (<i>4 operations</i>)
Mass, capacity and temperature 2 weeks		LO: To compare mass LO: To measure in grams LO: To measure in kilograms LO: To solve problems involving mass (<i>4 operations</i>) LO: To compare volume and capacity LO: To measure in millilitres LO: To measure in litres LO: To solve problems involving volume and capacity (<i>4 operations</i>) LO: To understand what temperature is



Medium Term Plan Year 1 | Summer 1



Medium Term Plan Year 2 | Summer 1

Domain		Learning objectives
Position and Direction 1 week	Week 1	LO: To describe turns LO: To describe position (<i>left, right, forwards, backwards, above, below</i>)
Fractions 2 weeks	Week 2	LO: To recognise and find half of an object or shape LO: To recognise and find half of a quantity
	Week 3	LO: To recognise and find a quarter of an object or shape LO: To recognise and find a quarter of a quantity
Multiplication and Division 3 weeks	Week 4	LO: To count in 2s LO: To count in 10s LO: To count in 5s LO: To recognise equal groups
	Week 5	LO: To add equal groups LO: To make arrays LO: To make doubles
	Week 6	LO: To make equal groups (<i>grouping</i>) LO: To make equal groups (<i>sharing</i>)

Domain	Learning objectives
Position and Direction 1 week	LO: To use the language of position LO: To describe movement LO: To describe turns LO: To describe movement and turns LO: To create shape patterns with turns
Statistics 2 weeks	LO: To make tally charts LO: To use simple tables LO: To understand block diagrams LO: To draw pictograms LO: To interpret pictograms LO: To draw pictograms (2, 5 and 10) LO: To interpret pictograms (2, 5 and 10)
4 Operations 3 weeks	Consolidation of 4 operations in readiness for Year 3



Medium Term Plan Year 1 | Summer 2



Medium Term Plan Year 2 | Summer 2

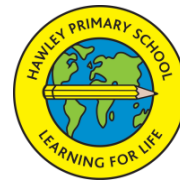
Domain		Learning objectives
Place Value (within 100) 3 weeks	Week 1	LO: To count from 50 to 100 LO: To count in tens to 100
	Week 2	LO: To partition into tens and ones LO: To place numbers on a number line to 100 LO: To find 1 more and 1 less
	Week 3	LO: To compare numbers with the same number of tens LO: To compare any two numbers
Money 1 week	Week 4	LO: To unitise LO: To recognise coins LO: To recognise notes LO: To count in coins
Time 2 weeks	Week 5	LO: To use the language of before and after LO: To sequence days of the week LO: To sequence months of the year
	Week 6	LO: To understand hours, minutes and seconds LO: To tell the time to the hour LO: To tell the time to half an hour

Domain	Learning objectives
Money 3 weeks	LO: To recognise all coins and notes LO: To count money in pence LO: To count money in pounds (<i>coins and notes</i>) LO: To count money in pounds and pence LO: To make the same amount of money with varying coins and notes LO: To compare amounts of money LO: To calculate with money LO: To make a pound LO: To find change
Time 2 weeks	LO: To tell the time to o'clock LO: To tell the time to half past LO: To tell the time to quarter past the hour LO: To tell the time to quarter to the hour LO: To tell the time past the hour (<i>5-minute intervals</i>) LO: To tell the time to the hour (<i>5-minute intervals</i>) LO: To know how many minutes are in an hour LO: To know how many hours are in a day
Year 2 End of Year Assessments	



Medium Term Plan

Year 3/4 | Autumn 1



Medium Term Plan

Year 3/4 | Autumn 2

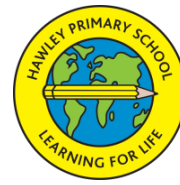
Domain	Learning objectives	Domain	Learning objectives
Number 1 week	LO: To identify, represent and estimate numbers using different representations <i>(practise representing and partitioning numbers up to 1,000 and 10,000 using a variety of manipulatives, including flexible partitioning)</i>	Money 2 weeks	LO: To recognise all pounds and pence LO: To write money using decimals LO: To convert between pounds and pence LO: To compare amounts of money LO: To estimate with money LO: To add money LO: To subtract money LO: To find change
Place Value 2 weeks	LO: To find 1, 10, 100 or 1,000 more of less than a given number LO: To order and compare numbers up to 1,000 LO: To order and compare numbers beyond 1,000 LO: To round to the nearest 10 LO: To round to the nearest 100 LO: To round to the nearest 1,000 LO: To round to the nearest 10, 100 or 1,000 LO: To read Roman numerals to 12 and 100	Multiplication and Division 3 weeks	LO: To use arrays to make equal groups (<i>sharing and grouping</i>) LO: To recap the 2, 5 and 10 times-tables LO: To learn the 4 times table LO: To learn the 8 times table LO: To use and apply the 2-, 4- and 8- times table LO: To learn the 3 times table LO: To learn the 6 times table LO: To learn the 3-, 6- and 9- times table LO: To learn the 7 times table LO: To learn the 11 times table LO: To learn the 12 times table LO: To multiply by 1 and 0 LO: To divide a number by 1 and itself
Addition and Subtraction 3 weeks	LO: To add and subtract 1s, 10s, 100s and 1000s LO: To add 1s, 10s and 100s over a boundary LO: To subtract 1s, 10s and 100s over a boundary LO: To make connections LO: To add up to two 4-digit numbers <i>no exchange, across a 10, 100, 1000</i> LO: To add numbers with a different number of digits LO: To subtract up to two 4-digit numbers <i>no exchange, across 10, 100, 1000</i> LO: To subtract numbers with a different number of digits LO: To calculate complements to 100 and 1,000 LO: To estimate answers to calculations LO: To use the inverse LO: To use efficient methods for addition and subtraction methods	Position and Direction 1 week	LO: To draw 2D shapes on a grid LO: To describe position using coordinates LO: To plot coordinates LO: To translate shapes on a grid LO: To describe translations

Bold = Y4 specific



Medium Term Plan

Year 3/4 | Spring 1



Medium Term Plan

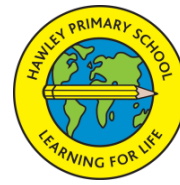
Year 3/4 | Spring 2

Domain	Learning objectives	Domain	Learning objectives
Multiplication and Division 3 weeks	<p>LO: To understand factor pairs LO: To multiply and divide by 10 and 100 LO: To reason about multiplication</p> <p>LO: To multiply 3 numbers LO: To use efficient strategies for multiplication LO: To solve scaling and correspondence problems LO: To multiply up to a 3-digit number by a 1-digit number – no exchange LO: To multiply up to a 3-digit number by a 1-digit number – with exchange LO: To use related facts to solve multiplication and division problems LO: To divide by a 1-digit number LO: To divide up to a 3-digit number by a 1-digit number – no exchange LO: To divide up to a 3-digit number by a 1-digit number – with exchange LO: To divide up to a 3-digit number by a 1-digit number – with remainders</p>	Fractions 3 weeks	<p>LO: To understand the language of numerator and denominator LO: To compare and order unit fractions LO: To understand the whole (<i>how many equal parts</i>) LO: To position fractions on a number line (Y3: unit fractions 0 – 1) LO: To compare and order non-unit fractions (Y3: fractions with denominator)</p> <p>LO: To identify equivalent fractions LO: To count beyond 1</p> <p>LO: To partition mixed numbers LO: To compare and order mixed numbers LO: To understand improper fractions LO: To convert mixed numbers to improper fractions LO: To convert improper fractions to mixed numbers LO: To recognise equivalent fraction families</p>
Length and Perimeter 2 weeks	<p>LO: To measure in metres and centimetres LO: To measure in kilometres and metres LO: To measure in kilometres, metres, centimetres and millimetres</p> <p>LO: To identify equivalent lengths LO: To add and subtract lengths LO: To understand perimeter LO: To calculate perimeter LO: To find the perimeter of rectilinear shapes LO: To calculate the perimeter of rectilinear shapes</p> <p>LO: To calculate the perimeter of polygons</p>	Mass and Capacity 2 weeks	<p>LO: To measure mass in grams and kilograms LO: To compare mass</p> <p>LO: To add and subtract mass LO: To measure capacity and volume in litres and millilitres LO: To compare capacity and volume</p> <p>LO: To add and subtract capacity and volume</p>



Medium Term Plan

Year 3/4 | Summer 1



Medium Term Plan

Year 3/4 | Summer 2

Domain	Learning objectives	Domain	Learning objectives
Fractions 2 weeks	LO: To add fractions LO: To add fractions and mixed numbers LO: To subtract fractions LO: To subtract fractions from whole amounts and mixed numbers LO: To find unit fractions <i>of a set of objects/amounts</i> LO: To find non-unit fractions <i>of a set of objects/amounts</i>	Decimals 3 weeks	LO: To represent tenths as fractions LO: To represent tenths on a number line LO: To represent tenths as decimals LO: To represent tenths on a place value grid LO: To represent hundredths as fractions LO: To represent hundredths as decimals LO: To represent hundredths on a place value grid LO: To represent halves and quarters as decimals LO: To partition decimals and make a whole LO: To compare and order decimals LO: To round to the nearest whole number LO: To divide a number by 10 LO: To divide a number by 100
Time 2 weeks	LO: To use am and pm LO: To sequence years, months and days LO: To know how many hours are in a day <i>(and related facts: hours, minutes and seconds in context)</i> LO: To tell the time past the hour <i>(5- minute intervals)</i> LO: To tell the time past the hour <i>(1- minute intervals)</i> LO: To tell the time to the hour <i>(5- minute intervals)</i> LO: To tell the time to the hour <i>(1- minute intervals)</i> LO: To read the time on a digital clock LO: To convert between 12-hour and 24-hour clock times LO: To interpret durations of events <i>(start and end times)</i>		Shape 2 weeks
Area 1 week	LO: To understand area LO: To count squares to calculate the area LO: To use squares to make rectilinear shapes LO: To compare the area of shapes	Statistics 2 weeks	LO: To interpret pictograms LO: To draw and interpret bar charts LO: To solve comparison, sum and difference problems LO: To interpret and draw line graphs LO: To interpret information from two-way tables LO: To collect and present data

Year 3:
Recap
Money
and +/-

Science



Medium Term Plan

Year 5 | Autumn 1



Medium Term Plan

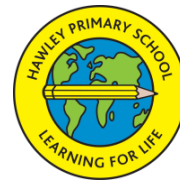
Year 5 | Autumn 2

Domain	Learning objectives	Domain	Learning objectives
Place Value 3 weeks	<p>LO: To recognise and use Roman numerals to 1,000</p> <p>LO: To read, write and represent numbers to 10,000</p> <p>LO: To read, write and represent numbers to 100,000</p> <p>LO: To partition numbers to 1,000,000</p> <p>LO: To read, write and represent numbers to 1,000,000</p> <p>LO: To make numbers 10 times smaller and 10 times greater (<i>powers of 10</i>)</p> <p>LO: To find more or less than a given number (<i>10/100/1,000/10,000/100,000</i>)</p> <p>LO: To compare and order numbers to 100,000</p> <p>LO: To compare and order numbers to 1,000,000</p> <p>LO: To round to the nearest 10, 100 or 1,000</p> <p>LO: To round within 100,000</p> <p>LO: To round within 1,000,000</p>	Multiplication and Division 2 weeks	<p>LO: To find the multiples of a given number</p> <p>LO: To find common multiples of pairs of numbers</p> <p>LO: To find the factors of a given number</p> <p>LO: To find common factors of pairs of numbers</p> <p>LO: To use knowledge of factors to recognise prime numbers</p> <p>LO: To recognise and use square numbers</p> <p>LO: To recognise and use cube numbers</p> <p>LO: To multiply by 10, 100 and 1,000</p> <p>LO: To divide by 10, 100 and 1,000</p> <p>LO: To use related facts to multiply and divide by 10, 100 and 1,000</p>
Addition and Subtraction 3 weeks	<p>LO: To use mental strategies to calculate the sum and difference</p> <p>LO: To add whole numbers with more than 4 digits</p> <p>LO: To subtract whole numbers with more than 4 digits</p> <p>LO: To use rounding to estimate the answers to calculations and check for accuracy</p> <p>LO: To use the inverse to check answers are correct (<i>addition and subtraction</i>)</p> <p>LO: To solve multi-step addition and subtraction problems</p> <p>LO: To compare calculations</p> <p>LO: To solve missing number problems</p>	Fractions 4 weeks	<p>LO: To find fractions equivalent to a unit fraction</p> <p>LO: To find fractions equivalent to a non-unit fractions</p> <p>LO: To recognise equivalent fractions</p> <p>LO: To convert between improper fractions and mixed numbers</p> <p>LO: To convert mixed numbers to improper fractions</p> <p>LO: To compare fractions less than 1</p> <p>LO: To order fractions less than 1</p> <p>LO: To compare and order fractions greater than 1</p> <p>LO: To add and subtract fractions with the same denominator</p> <p>LO: To add fractions within 1</p> <p>LO: To add fractions with a total greater than 1</p> <p>LO: To add to a mixed number</p> <p>LO: To add two mixed numbers</p> <p>LO: To subtract fractions</p> <p>LO: To subtract from a mixed number (<i>including breaking the whole</i>)</p> <p>LO: To subtract two mixed numbers</p>



Medium Term Plan

Year 5 | Spring 1



Medium Term Plan

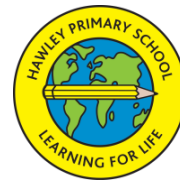
Year 5 | Spring 2

Domain	Learning objectives	Domain	Learning objectives
Multiplication and Division 3 weeks	<p>LO: To multiply up to a 4-digit number by a 1-digit number</p> <p>LO: To use grid method to multiply a 2-digit number by a 2-digit number</p> <p>LO: To use column method to multiply a 2-digit number by a 2-digit number</p> <p>LO: To multiply a 3-digit number by a 2-digit number</p> <p>LO: To multiply a 4-digit number by a 2-digit number</p> <p>LO: To solve multiplication problems</p> <p>LO: To multiply and divide numbers mentally, drawing upon known facts</p> <p>LO: To use short division</p> <p>LO: To divide a 4-digit number by a 1-digit number</p> <p>LO: To divide with remainders</p> <p>LO: To choose efficient strategies</p> <p>LO: To solve problems involving multiplication and division</p>	Decimals and Percentages 3 weeks	<p>LO: To understand what a percentage is %</p> <p>LO: To write percentages as fractions</p> <p>LO: To write percentages as decimals</p> <p>LO: To recognise and use tenths and hundredths (<i>up to two decimal places</i>)</p> <p>LO: To identify equivalent fractions and decimals (<i>tenths</i>)</p> <p>LO: To identify equivalent fractions and decimals (<i>hundredths</i>)</p> <p>LO: To convert between fractions and decimals</p> <p>LO: To write thousandths as fractions</p> <p>LO: To write thousandths as decimals</p> <p>LO: To represent thousandths on a place value chart</p> <p>LO: To order and compare decimals <i>with the same number of decimal places</i></p> <p>LO: To order and compare any decimals with up to 3 decimal places</p> <p>LO: To round decimals to the nearest whole number</p> <p>LO: To round to 1 decimal place</p> <p>LO: To convert between fractions, decimals and percentages</p>
Fractions 2 weeks	<p>LO: To multiply a unit fraction by an integer</p> <p>LO: To multiply a non-unit fraction by an integer</p> <p>LO: To multiply a mixed number by an integer</p> <p>LO: To calculate a fraction of a quantity</p> <p>LO: To calculate the fraction of an amount</p> <p>LO: To use a fraction of an amount to find the whole</p> <p>LO: To use fractions as operators</p>	Perimeter and Area 2 weeks	<p>LO: To calculate the perimeter of rectangles</p> <p>LO: To calculate the perimeter of rectilinear shapes</p> <p>LO: To calculate the perimeter of polygons</p> <p>LO: To calculate the area of rectangles</p> <p>LO: To calculate the area of compound shapes</p> <p>LO: To estimate the area of a shape</p>



Medium Term Plan

Year 5 | Summer 1



Medium Term Plan

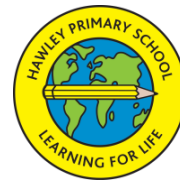
Year 5 | Summer 2

Domain	Learning objectives	Domain	Learning objectives	
Statistics 1 week	<p>LO: To read and interpret line graphs</p> <p>LO: To draw line graphs</p> <p>LO: To read and interpret two-way tables</p> <p>LO: To read and interpret timetables</p>	Decimals 3 weeks	<p>LO: To use known facts to add and subtract decimals within 1</p> <p>LO: To add and subtract decimals across 1</p> <p>LO: To add decimals with the same number of decimal places</p> <p>LO: To subtract decimals with the same number of decimal places</p> <p>LO: To add decimals with a different number of decimal places</p> <p>LO: To subtract decimals with a different number of decimal places</p> <p>LO: To use efficient strategies for adding and subtracting decimals</p> <p>LO: To sequence decimals</p> <p>LO: To multiply by 10, 100 and 1,000</p> <p>LO: To divide by 10, 100 and 1,000</p> <p>LO: To solve missing value problems</p>	
Shape 2 weeks	<p>LO: To understand and use degrees</p> <p>LO: To classify angles</p> <p>LO: To estimate the size of angles</p> <p>LO: To measure angles up to 180°</p> <p>LO: To draw lines and angles accurately</p> <p>LO: To calculate angles around a point</p> <p>LO: To calculate angles on a straight line</p> <p>LO: To measure lengths and angles in shapes</p> <p>LO: To identify regular and irregular polygons</p> <p>LO: To recognise the names and properties of 3D shapes</p>		Negative numbers 1 week	<p>LO: To understand negative numbers in context</p> <p>LO: To count through zero in ones</p> <p>LO: To count through zero in multiples</p> <p>LO: To compare and order negative numbers</p> <p>LO: To find the difference</p>
Position and direction 2 weeks	<p>LO: To read and plot coordinates</p> <p>LO: To solve problems involving coordinates</p> <p>LO: To translate shapes</p> <p>LO: To translate shapes using coordinates</p> <p>LO: To identify lines of symmetry</p> <p>LO: To reflect shapes horizontally</p> <p>LO: To reflect shapes vertically</p>		Convert units 1 week	<p>LO: To measure in kilograms and kilometres</p> <p>LO: To measure in millimetres and millilitres</p> <p>LO: To convert units of length</p> <p>LO: To convert between metric and imperial units of measure</p> <p>LO: To convert between units of time and calculate timetables</p>
		Volume 1 week	<p>LO: To understand volume in cubic cm</p> <p>LO: To compare volume</p> <p>LO: To estimate volume</p> <p>LO: To estimate capacity</p>	



Medium Term Plan

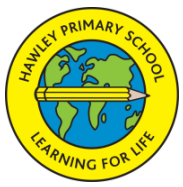
Year 6 | Autumn 1



Medium Term Plan

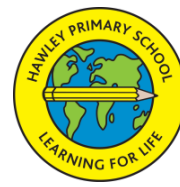
Year 6 | Autumn 2

Domain	Learning objectives	Domain	Learning objectives
Place Value 2 weeks	LO: To represent numbers to 1,000,000 LO: To represent numbers to 10,000,000 LO: To read and write numbers to 10,000,000 LO: To recognise and use Powers of 10 LO: To position numbers on a number line to 10,000,000 LO: To compare and order any integers LO: To round any number LO: To use negative numbers in context	Fractions 3 weeks	LO: To find equivalent fractions by simplifying LO: To position equivalent fractions on a number line LO: To compare and order fractions (<i>denominator</i>) LO: To compare and order fractions (<i>numerator</i>) LO: To add and subtract simple fractions LO: To add and subtract any two fractions LO: To add mixed numbers LO: To subtract mixed numbers LO: To solve multi-step problems
Addition, Subtraction, Multiplication and Division 4 weeks	LO: To add and subtract integers LO: To find common factors LO: To find common multiples LO: To use the rules of divisibility LO: To recognise and use prime numbers (<i>to 100</i>) LO: To recognise and use square and cube numbers LO: To multiply a 4-digit number by a 2-digit number LO: To solve multiplication problems LO: To use short division LO: To divide using factors LO: To use long division LO: To use long division with remainders LO: To solve division problems LO: To solve multi-step problems LO: To learn the order of operations (BIDMAS) LO: To estimate answers to calculations LO: To use known facts to reason	Position and Direction 1 week	LO: To use coordinates in a first quadrant LO: To read and plot points in four quadrants LO: To solve problems with coordinates LO: To translate shapes LO: To reflect shapes
		Fractions 2 weeks	LO: To multiply fractions by integers LO: To multiply fractions by fractions LO: To divide a fraction by an integer LO: To divide any fraction by an integer LO: To calculate the fraction of an amount LO: To use a fraction of an amount to find the whole



Medium Term Plan

Year 6 | Spring 1



Medium Term Plan

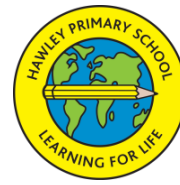
Year 6 | Spring 2

Domain	Learning objectives	Domain	Learning objectives
Decimals 2 weeks	LO: To represent the value of each digit in a decimal LO: To explore numbers that are greater than one with 3 decimal places LO: To round decimals LO: To add and subtract decimals LO: To multiply by 10, 100 and 1,000 LO: To divide by 10, 100 and 1,000 LO: To multiply decimals by integers LO: To divide decimals by integers LO: To multiply and divide decimals in context	Area, Perimeter and Volume 2 weeks	LO: To calculate the area of shapes LO: To calculate the perimeter of shapes LO: To calculate the area of a triangle by counting squares LO: To calculate the area of a right-angled triangle LO: To calculate the area of any triangle LO: To calculate the area of a parallelogram LO: To calculate volume using cubes LO: To find the volume of a cuboid
Fractions, Decimals & Percentages 2 weeks	LO: To identify equivalent fractions and decimals LO: To recognise fractions as division LO: To understand percentages % LO: To write fractions as percentages LO: To identify equivalent fractions, decimals and percentages LO: To order fractions, decimals and percentages LO: To calculate percentages of amounts (10%) LO: To calculate percentages of amounts (1%) LO: To calculate percentages of amounts (multi-step: 30%)	Shape 2 weeks	LO: To measure and classify angles LO: To calculate angles LO: To calculate vertically opposite angles LO: To calculate the angles in a triangle LO: To calculate the angles in a quadrilateral LO: To calculate angles in a polygon LO: To find the radius and diameter of a circle LO: To draw 2D shapes accurately LO: To build and use the nets of 3D shapes LO: To compare and classify geometric shapes based on their properties and sizes
Ratio 2 weeks	LO: To use ratio language and the ratio symbol LO: To relate fractions to ratio LO: To calculate ratio LO: To use scale factors LO: To solve ratio and proportion problems in context (recipes)	Convert Units 1 week	LO: To recognise, read and write metric measures LO: To convert between metric measures LO: To convert between miles and kilometres LO: To calculate with metric measures LO: To recognise, read and write imperial measures



Medium Term Plan

Year 6 | Summer 1

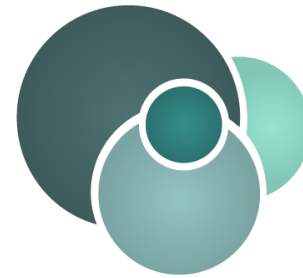


Medium Term Plan

Year 6 | Summer 2

Domain	Learning objectives		Learning objectives
Algebra 2 weeks	LO: To use function machines (<i>1-step and 2-step</i>) LO: To form algebraic expressions using letters to represent numbers LO: To find the value of expressions (<i>by substituting</i>) LO: To understand and use formulae LO: To form equations LO: To solve equations (<i>1-step and 2-step</i>) LO: To find pairs of values LO: To solve problems with two unknowns		*Consolidation of Algebra and Ratio *Preparation for Year 7 *Tenner Challenge *Themed topic challenges <i>e.g., theme park maths</i>
	Statistics	LO: To read, interpret and draw line graphs LO: To read and interpret dual bar charts LO: To read and interpret pie charts LO: To use pie charts with percentages LO: To draw pie charts LO: To calculate the mean	
2 weeks	REVISION		
Week 4: KS2 Statutory Testing: SATs Week			

Planning devised in collaboration with:



NCETM
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IN THE TEACHING OF MATHEMATICS

