



Holbrook CofE Primary
School
Maths coverage autumn
term

Class 1

Autumn

Reception	Y1
Getting to know you Routines Sorting objects Zero Pond	Place value within ten Sort, count & represent objects Sort, count & represent numbers Count forwards/backwards 1 more than
Just like me! King One Adding one more/less to a group	Place value within ten 1 less than 1:1 correspondence Compare objects
Just like me! Exploring pattern Tommy Two	Place value within ten: Introduce $<=>$ Compare numbers Order objects and numbers
Just like me! Compare size, mass and capacity Thelma Three	Place value within ten: Ordinal numbers The number-line Addition: Introducing parts and wholes
It's me 1 2 3! Re-cap 0-3 – deeper reasoning Freddie Four	Addition: Part-whole model Addition symbol Fact-families +
Fiona Five	Addition: Number bonds to ten Systematic methods
Seal Six	Addition: compare bonds Finding a part
Light and Dark Sir Seven	Subtraction: crossing-out method Symbol Factifamilies (8 facts)
Eric Eight	Subtraction: Counting back Find the difference Comparing addition and subtraction statements $a + b > c$
Nina Nine Shape	Shape: recognise, name and sort 2 & 3D shapes
Tia Ten	Place Value within 20: Count forwards & backwards & write numbers to 20 in numerals & words
Time	Place Value within 20: Numbers 11 to 20 Tens and ones Count one +/- Compare numbers
Number patterns	Place Value within 20: Compare groups of objects Order numbers

Class 2

Autumn

Y1	Y2
Counting and estimating Teens and place value	Counting and estimating Place value (2 digit)
Numbers on a line/ Compare/ Order Count to 100 from any given number; count back from 100 to 1 or from any given number. Find the number that is 1 more/1 less than any number up to 100.	Numbers on a line/ Compare/ Order Count on and back from any number up to 100. Find the number that is 1 more/1 less/10 more/10 less than any number up to 100.
Use ordinal numbers up to 10th. Introducing < and > and = Comparing numbers One to one	Use ordinal numbers up to 10th and beyond. Comparing numbers < and > and = Place Value Tens and ones using addition
Begin to know pairs which make 10.	Know pairs to 10 and 20, and write related addition and subtraction facts.
Parts and wholes	Count in 2s, 10s, 5s and 3s
Fact Families to 10 Compare numbers bonds Systematic bonds	Bonds to 100 Add subtract 1 10 more or less 10 more or less
Addition: Re-cap Fact-families – addition facts Number bonds to 10	Bonds to 100 (tens) Add and subtract 1s 10 more 10 less Add and subtract 10s Add by making 10
Addition: Compare number bonds Finding a part	Addition: Add 2-digit and 1-digit - crossing ten Add 2-digit and 1-digit - crossing ten Add 2-digit numbers - not crossing ten Add 2-digit numbers - crossing ten
Subtraction: taking away, how many left? Fact families – the 8 facts	Subtraction: Subtraction - crossing 10 Subtract 1-digit from 2-digit- cross ten Subtract 1-digit from 2-digit- cross ten
Subtraction – counting back; finding the difference Comparing $a + b > c$ $a + b > c + d$	Subtract 2-digits - not crossing ten Subtract 2-digits- crossing ten Mixed addition and subtraction activity
Place value within 20: Count forwards & backwards write numbers to 20 in numerals & words	Find and make number bonds Bonds to 100 (tens and ones) Add 3 1-digit numbers
Place value within 20: Numbers 11 to 20 Tens and ones, (chips and peas/ deines) Count one more and one less	Make equal groups activity Make equal groups Redistribute from unequal to equal groups activity Add equal groups Make arrays

SHAPE: recognise and name 3D shapes
 Sort 3D shapes
 SHAPE: recognise and name 2D shapes
 Sort 2D shapes
 Patterns with 3D and 2D shapes

SHAPE: Recognise/ draw properties: pentagons, hexagons and octagons including those that are irregular.
 Visualise, make, recognise and describe 2D shapes.
 Sort: Venn diagram/ Carroll diagram.

Class 3

Year 3	Year 4
<p><u>Number, Place Value and Rounding</u></p> <p>Count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number. Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</p> <p>Solve number problems and practical problems involving all objectives.</p> <p>Use knowledge of number operations and corresponding inverses including doubling and halving</p>	<p>Count in multiples of 6, 7, 9, 25 and 1,000</p> <p>Find 1,000 more or less than a given number</p> <p>Count backwards through 0 to include negative numbers</p> <p>Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)</p> <p>Order and compare numbers beyond 1,000</p> <p>Identify, represent and estimate numbers using different representations</p> <p>Round any number to the nearest 10, 100 or 1,000</p>
<p><u>Addition and Subtraction</u></p> <p>Add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds.</p> <p>Estimate the answer to a calculation and use inverse operations to check answers.</p>	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p> <p>Estimate and use inverse operations to check answers to a calculation</p> <p>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>
<p><u>Multiplication and Division</u></p> <p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.</p> <p>Understand division is the inverse of multiplication and vice versa; use this to derive and record related multiplication and division sentences</p>	<p>Recall multiplication and division facts for multiplication tables up to 12×12</p> <p>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers</p> <p>Recognise and use factor pairs and commutativity in mental calculations</p> <p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</p>

Class 4

Y4	Y5
Numbers to 1000 100s, 10s and 1s 1000s, 100s, 10s and 1s	Numbers to 10000 1000s, 100s, 10s and 1s Numbers to a million
Represent numbers to 10,000 Partitioning Counting in 1000s	Represent numbers to 100,000 Partitioning Counting in 10s, 100s, 1000s, 10,000s, 100,000s
Number line to 1000 Number line 10,000 Round to the nearest 10	Number line to 1000 Number line to 10,000 Round to the nearest 10 and 100
Finding 1, 10 or 100 more or less 1000 more or less Round to the nearest 10, 100, 1000	Finding 1, 10 or 100 more or less 1000 or 10,000 more or less Round to the nearest 1000 and 10,000 Round within 100,000 Round to 1 million
Negative Numbers	Negative Numbers
Roman Numerals	Roman Numerals
Add and subtract 1s, 10s, 100s and 1,000s Add two 4-digit numbers - no exchange Add two 3-digit numbers – crossing 10 or 100	Add and subtract 1s, 10s, 100s and 1,000s Add two 4-digit numbers - no Exchange (Use Y4) Add two 4-digit numbers - one exchange
Add two 4-digit numbers - one exchange Add two 4-digit numbers - more than one exchange Addition – Problem Solving	Add two 4-digit numbers - more than one exchange Add whole numbers with more than 4 digits Addition – Problem Solving
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 - no exchange – (Use Y4) Subtract a 3-digit number from a 3-digit number – exchange (Use Y4) Subtract two 4-digit numbers – one exchange
Subtract two 4-digit numbers - more than one exchange Subtract two 4-digit numbers - more than one exchange	Subtract two 4-digit numbers – more than one exchange Subtract whole numbers with more than 4-digits
Multi-step addition and subtraction problems	Multi-step addition and subtraction problems
Fluency reasoning and Problem Solving Estimate answers /Checking Strategies	Fluency reasoning and Problem Solving Round to estimate and approximate Inverse operations (Checking strategies addition and subtraction)
Multiply and Divide by 10	Multiply and Divide by 10
Multiply by 0 and 1 Divide by 1 and itself	Multiply by 0 and 1 Divide by 1 and itself Divide by 10, 100 and 1000

Equivalent Lengths – m, cm and mm Kilometres Recap Adding and subtracting lengths Recap Measure perimeter Perimeter on a grid, rectangle and rectilinear shape	Recap equivalent lengths Measure Perimeter Recap Perimeter on grid and perimeter of rectangles Area of rectangles, compound shapes and irregular shapes
Pounds and Pence Ordering Money Adding and subtracting money Giving Change	Pounds and Pence Ordering Money Adding and subtracting money Giving Change

Class 5

	Autumn term
Place value	Numbers to 10,000 and 100,000 Numbers to ten million Compare and order any number Round numbers to 10, 100 and 1,000 Round any number Negative numbers
Four operations	Adding whole numbers with more than 4 digits Subtracting whole numbers with more than 4 digits Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Add and subtract integers Multiply 4 digits by 1 digit Multiply 2 digits by 2 digits Multiply 3 digits by 2 digits Multiply up to a 4 digit number by a 2 digit number Divide 4 digits by 1 digit Divide with remainders Short division Division using factors Long division Factors Common factors Common multiples Primes to 100 Square and cubes Order of operations Mental calculations and estimation Reasoning from known facts

Fractions	<p>Equivalent fractions Simplify fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Fractions on a number line Compare and order (denominator) Compare and order (numerator) Add and subtract fractions Add mixed numbers Add fractions Subtract mixed numbers Subtract fractions Mixed addition and subtraction Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers Four rules with fractions Fractions of an amount Fractions of an amount – find the whole</p>
Position and direction	<p>The first quadrant Four quadrants Translations Reflections</p>