Curriculum – Maths

White Rose Progression

Courage **Resilience** **Honesty** **Kindness**

Matthew 7:24 - "Therefore everyone who hears these words of mine and puts them into practice is like a wise man who built his house on the rock"

Year One - National Curriculum

Number - Number and Place Value Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens Given a number, identify one more and one less Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Read and write numbers from 1 to 20 in numerals and words	**Number – Addition and Subtraction** Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs Represent and use number bonds and related subtraction facts within 20 Add and subtract one-digit and two-digit numbers to 20, including zero Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? – 9	**Number – Multiplication and Division** Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	**Number – Fractions** Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity
Measurement Compare, describe and solve practical problems for: -lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] -mass/weight [for example, heavy/light, heavier than, lighter than] -capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] -time [for example, quicker, slower, earlier, later] Measure and begin to record the following: -lengths and heights -mass/weight -capacity and volume -time (hours, minutes, seconds) Recognise and know the value of different denominations of coins and notes Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	**Geometry – Properties of Shape** Recognise and name common 2-D and 3-D shapes, including: -2-D shapes [for example, rectangles (including squares), circles and triangles] -3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	**Geometry – Position and Direction** Describe position, direction and movement, including whole, half, quarter and three-quarter turns	**Statistics**

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Place Value (Within 10)**	**Number: Place Value (Within 10)**	**Number: Place Value (Within 10)**	**Number: Place Value (Within 10)**	**Number: Place Value (Within 10)**	**Number: Addition and subtraction (Within 10)**	**Number: Addition and subtraction (Within 10)**
Lesson objectives (Small steps)	1. Sorting objects 2. Count Objects 3. Count objects from a larger group	4. Represent objects 5. Represent numbers as words 6. Count on from any number	7. 1 more 8. Count backwards within 10 9. 1 less 10. Compare groups by matching	11. Fewer, more, same 12. Less than, greater than, equal to 13. Compare numbers	14. Order objects and numbers 15. The number line	1. Introducing parts and wholes 2. Part-whole model 3. Write number sentences	4. Fact families – addition facts 5. Number bonds within 10 6. Systematic number bonds within 10 7. Numbers bonds to 10
Vocabulary (Year group specific)	Sort Forwards Backwards	Represent Forwards Backwards	Forwards Backwards One more One less Compare Match Equal to Equals	Greater Fewer Compare More than Less than Equal to Equals	Order Equals	Part Whole Subtraction/subtract Addition/add Equals	Number bonds Equals Part Whole Facts Inverse
Previous years vocab (EYFS)	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Add/plus Take away/minus Number bonds Part Whole Altogether One more One less Forwards Backwards	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Addition and subtraction (Within 10)**	**Number: Addition and subtraction (Within 10)**	**Number: Addition and subtraction (Within 10)**	**Assessment week**	**Geometry: Shape**	**Geometry: Shape**	**Consolidation week**
Lesson objectives (Small steps)	1. Addition – add together 2. Addition – add more 3. Addition problems 4. Find a part	5. Subtraction- find a part 6. Fact families – the eight facts Subtraction – take away/cross out (How many left?)	7. Take away (How many left?) 8. Subtraction on a number line 9. Add or subtract 1 or 2	This can also be used as a buffer week for any units that over run or an opportunity to consolidate learning	1. Recognise and name 2. 3-D shapes 3. Sort 3-D shapes Recognise and name 4. 2-D shapes	5. Sort 2-D shapes 6. Patterns with 3-D and 2-D shapes	Revisit concepts children struggled with as well as act as a buffer for any units that overran
Vocabulary (Year group specific)	Equals Part Whole Inverse Addition/add	Equals Part Whole Facts Inverse Subtraction/subtract Take away	Equals Part Whole Facts Inverse Subtraction/subtract Addition/add Take away		Properties Pyramids Cylinders Faces Sides Corners Surface Flat Curved	Properties Pyramids Cylinders Faces Sides Corners Surface Flat Curved Patterns	
Previous years vocab (EYFS)	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare		2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Cone Sort Compare Pattern Curved Straight	2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Cone Sort Compare Pattern Curved Straight	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Place Value (Within 20)	Number: Place Value (Within 20	Number: Place Value (Within 20	Number: Addition and subtraction within 20	Number: Addition and subtraction within 20	Number: Addition and subtraction within 20
Lesson objectives (Small steps)	1) Count within 20 (NPV-1) 2) Understand 10 (NPV-1) 3) Understand 11, 12 and 13 (NPV-1) 4) Understand 14, 15 and 16 (NPV-1)	5) Understand 17, 18 and 19 (NPV-1) 6) Understand 20 (NPV-1) 7) 1 more and 1 less (NPV1) 8) The number line to 20 (NPV-1)	9) Use a number line to 20 (NPV-1) 10) Estimate on a number line to 20 (NPV-1) 11) Compare numbers to 20 (NPV-2) 12) Order numbers to 20 (NPV-2) 13) Mini assessment (Complete end of unit assessment)	1) Add by counting on within 20 2) Add ones using number bonds 3) Find and make number bonds to 20 4) Doubles	5) Near doubles 6) Subtract ones using number bonds 7) Subtraction – counting back 8) Subtraction – finding the difference	9) Related facts (NF-1) 10) Missing number problems 11) Mini assessment (Complete end of unit assessment
Vocabulary (Year group specific)	Tens Ones Order Numerals Digit More than Less than	Tens Ones Order Numerals Digit More than Less than	Tens Ones Order Numerals Digit More than Less than Compare Order	Number bonds Equals Part Whole Facts Inverse Subtraction/subtract Addition/add	Number bonds Equals Part Whole Facts Inverse Subtraction/subtract Addition/add	Number bonds Equals Part Whole Facts Inverse Subtraction/subtract Addition/add
Previous years vocab (EYFS)	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare	Add/plus Take away/minus Number bonds Part Whole Total Altogether One more One less Forwards Backwards Compare

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Place value (Within 50)	Number: Place value (Within 50)	Measurement: Length and Height	Measurement: Mass and Volume	Measurement: Mass and Volume	Consolidation week
Lesson objectives (Small steps)	1) Count from 20 to 50 (NPV-1) 2) 20, 30, 40 and 50 (NPV1) 3) Count by making groups of tens (NPV-1) 4) Groups of tens and ones (NPV-1)	5) Partition into tens and ones (NPV-1) 6) The number line to 50 (NPV-1) 7) Estimate on a number line to 50 (NPV-1) 8) One more, one less (NPV-1) 9) Mini assessment (Complete end of unit assessment)	1) Compare lengths and heights (NPV-2) 2) Measuring lengths using objects (NPV-2) 3) Measure lengths in centimetres (NPV-2) 4) Mini assessment (Complete end of unit assessment)	1) Heavier and lighter 2) Measure mass 3) Compare mass 4) Full and Empty (This small step can be moved to next week if you choose to separate mass and volume)	5) Compare volume 6) Measure capacity 7) Compare capacity 8) Mini assessment (Complete end of unit assessment)	Revisit concepts children struggled with as well as act as a buffer for any units that overran This can also be used to extend the Length and height unit should you wish to spend multiple lessons on these small steps.
Vocabulary (Year group specific)	Numerals Digit Represent Forwards Backwards Compare Order	Tens Ones Numerals Digit Represent Forwards Backwards Compare Order	Length Compare Consolidate Reception vocab	Mass Weight Consolidate Reception vocab Capacity Volume Full/empty More than Less than Half full	Capacity Volume Full/empty More than Less than Half full	
Previous years vocab (EYFS)	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Count Count on More Less Numerals Order/ordinal Subitise Compare Different One more One less Same as More than Less than (fewer) Odd Even	Height Length Tall(er)(est) Short(er)(est) Long(er)(est) Big Bigger Biggest Wide(r) Narrow(er) Closer Further	Weight Full Empty Half full Nearly full Nearly empty Tall Thin Narrow Wide Shallow Heavy, heavier, heaviest Light, lighter, lightest	Capacity Full Empty Half full Nearly full Nearly empty Tall Thin Narrow Wide Shallow Heavy, heavier, heaviest Light, lighter, lightest	

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Multiplication and Division	Number: Multiplication and Division	Measurement: Fractions	Measurement: Fractions	Measurement: Position and direction	Consolidation week
Lesson objectives (Small steps)	1. Count in 2s 2. Count in 10s 3. Count in 5s 4. Recognise equal groups 5. Add equal groups	6. Make arrays 7. Make doubles 8. Make equal groups – grouping 9. Make equal groups – sharing 10. Mini assessment	1. Recognise a half (object/shape) 2. Find a half (object/shape) 3. Recognise half (quantity) 4. Find half (quantity)	5. Recognise a quarter (object/shape) 6. Find quarter (object/shape) 7. Recognise quarter (quantity) 8. Find a quarter (quantity) 9. Mini Assessment	1. Describe turns 2. Describe position left and right 3. Describe position – forwards and backwards 4. Describe position – above and below 5. Ordinal numbers	Revisit concepts children struggled with as well as act as a buffer for any units that overran This can also be used to extend the Length and height unit should you wish to spend multiple lessons on these small steps.
Vocabulary (Year group specific)	Multiplication Division Arrays	Multiplication Division Arrays	Whole Half Quarter Equal parts	Whole Half Quarter Equal parts	Position Direction Movement Whole turn Quarter turn Half turn Three – quarter turn	
Previous years vocab (EYFS)	Double Half Twice as many Equal Unequal Share Group Odd even	Double Half Twice as many Equal Unequal Share Group Odd even	Whole Half Quarter Equal parts	Whole Half Quarter Equal parts	Over Under Between Around Through On Into Next to Behind Beneath Order Repeat Patterns On top of	

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Place value (Within 100)	Number: Place value (Within 100)	Measurement: Money	Measurement: Time	Measurement: Time	Consolidation week
Lesson objectives (Small steps)	1. Count from 50 to 100 2. Tens to 100 3. Partition into tens and ones 4. The number line to 100	5. 1 more, 1 less 6. Compare numbers with the same number of tens 7. Compare any two numbers 8. Mini assessment	1. Unitising 2. Recognise coins 3. Recognise notes 4. Count in coins 5. Mini assessment	1. Before and after 2. Days of the week 3. Months of the year 4. Hours, minutes and seconds	5. Tell the time to the hour 6. Tell the time to the half hour 7. Mini Assessment	Revisit concepts children struggled with as well as act as a buffer for any units that overran This can also be used to extend the Length and height unit should you wish to spend multiple lessons on these small steps.
Vocabulary (Year group specific)	Sort Represent Multiples Partitioning Ones tens	Sort Represent Multiples Partitioning Ones tens	Money Coins Notes Pounds £ Pence p	Chronological order Days of the week Months of the year Month Year O'clock Half past Second	Chronological order Days of the week Months of the year Month Year O'clock Half past Second	
Previous years vocab (EYFS)	Numerals Digit One more One less Equal to More than Less than (fewer)	Numerals Digit One more One less Equal to More than Less than (fewer)		Time Quicker Slower Earlier Later Before After First Next Today Yesterday Tomorrow Morning Afternoon Evening Day Week Hour minutes	Time Quicker Slower Earlier Later Before After First Next Today Yesterday Tomorrow Morning Afternoon Evening Day Week Hour minutes	

Year Two - National Curriculum

Number - Number and Place Value Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Recognise the place value of each digit in a two-digit number (tens, ones) Identify, represent and estimate numbers using different representations, including the number line Compare and order numbers from 0 up to 100; use and = signs Read and write numbers to at least 100 in numerals and in words Use place value and number facts to solve problems	**Number – Addition and Subtraction** Solve problems with addition and subtraction: -using concrete objects and pictorial representations, including those involving numbers, quantities and measures -applying their increasing knowledge of mental and written methods Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: -a two-digit number and ones -a two-digit number and tens -two two-digit numbers -adding three one-digit numbers Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	**Number – Multiplication and Division** Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	**Number – Fractions** Recognise, find, name and write fractions 1/3, ¼, 2/4 and 3/4 of a length, shape, set of objects or quantity Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½
Measurement Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and = Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Compare and sequence intervals of time Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Know the number of minutes in an hour and the number of hours in a day	**Geometry – Properties of Shape** Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Compare and sort common 2-D and 3-D shapes and everyday objects	**Geometry – Position and Direction** Order and arrange combinations of mathematical objects in patterns and sequences Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise)	**Statistics** Interpret and construct simple pictograms, tally charts, block diagrams and simple tables Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and comparing categorical data

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**
Lesson objectives (Small steps)	1. Numbers to 20 2. Count objects to 100 by making 10s 3. Recognise tens and ones 4. Use a place value chart	5. Partition numbers to 100 6. Write numbers to 100 in words 7. Flexibly partition numbers to 100 8. Write numbers to 100 in expanded form	9. 10s on the number line to 100 10. 10s and 1s on the number line to 100 11. Estimate numbers on a number line 12. Compare objects 13. Compare numbers	14. Order objects and numbers 15. Count in 2s, 5s and 10s 16. Count in 3s	1. Bonds to 10 2. Fact families – addition and subtraction bonds within 20 Related facts 3. Bonds to 100 (tens)	4. Add and subtract 1s 5. Add by making 10 6. Add three 1-digit numbers 7. Add to the next 10 8. Add across 10	9. Subtract across 10 10. Subtract from a 10 11. Subtract a 1-digit number from a 2-digit number (across a 10) 12. 10 more, 10 less 13. Add and subtract 10s
Vocabulary (Year group specific)	Place value Digit Two-digit (Revisit Y1 vocab)	Partition Place value Digit Two-digit (Revisit Y1 vocab)	Place value Digit Two-digit Estimate (Revisit Y1 vocab)	Count in steps Place value Digit Two digit Estimate (Revisit Y1 vocab)	2-digit number (can extend to 3 digit) Commutative Sum Inverse	2-digit number (can extend to 3 digit) Commutative Sum	2-digit number (can extend to 3 digit) Commutative Sum
Previous years Vocabulary	Sort Represent Order/ordinal Compare Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Sort Represent Order/ordinal Compare Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Sort Represent Order/ordinal Compare Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Sort Represent Order/ordinal Forwards Backwards Numerals Multiples Equal to Ones Tens Partitioning Digit	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add Difference	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add Difference	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add Difference

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Assessment week**	**Geometry: Shape**	**Geometry: Shape**	**Geometry: Shape**	**Consolidation week**
Lesson objectives (Small steps)	1. Add two 2-digit numbers (not across a 2. Add two 2-digit numbers (across a 10) 3. Subtract two 2digit numbers 4. Subtract two 2digit numbers (across a 10)	5. Mixed addition and subtraction) 6. Compare number sentences 7. Missing number problems	This can also be used as a buffer week for addition and subtractions should you use to spend additional time on any of the steps (some weeks have 5 small steps so they could be moved into this week)	1. Recognise 2D and 3D shapes 2. Count sides on a 2D shape 3. Count vertices in 2-D shapes 4. Draw 2-D shapes	5. Lines of symmetry on shapes 6. Use lines of Symmetry to complete shapes 7. Sort 2-D shapes 8. Count faces on 3-D shapes	9. Count edges on a 3-D shapes 10. Count vertices in a 3-D shape 11. Sort 3-D shapes 12. Make patterns with 2-D and 3-D shapes	Revisit concepts children struggled with as well as act as a buffer for any units that overran
Vocabulary (Year group specific)	2-digit number (can extend to 3 digit) Commutative Sum Difference	2-digit number (can extend to 3 digit) Commutative Sum Difference		Sides Vertices Vertex Pentagon Hexagon	Symmetry Line of symmetry Faces Sides Vertices Vertex Pentagon Hexagon	Edges Symmetry Line of symmetry Faces Sides Vertices Vertex Pentagon Hexagon	
Previous years Vocabulary	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add	Number bonds Equals Total Part Whole Facts Inverse Subtraction/subtract Addition/add		2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Pyramids Spheres Cylinder Pyramid Properties	2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Pyramids Spheres Cylinder Pyramid Properties	2-D shapes Rectangle Square Circle Triangle 3-D shapes Cuboids Cubes Pyramids Spheres Cylinder Pyramid Properties	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Measurement: Money	Measurement: Money	Number: Multiplication and division	Number: Multiplication and division	Number: Multiplication and division	Number: Multiplication and division
Lesson objectives (Small steps)	1) Count money – pence 2) Count money – pounds (notes and coins) 3) Count money – pounds and pence 4) Choose notes and coins 5) Make the same amount	6) Compare amounts of money (NPV-2) 7) Calculate with money (AS-1/2/3/4) 8) Make a pound (AS1/2/3/4) 9) Find change (AS1/2/3/4) 10) Two-step problems (AS-1/2/3/4)	11) Money mini assessment (end of unit assessment) 1) Recognise equal groups (MD-1) 2) Make equal groups (MD-1) 3) Add equal groups (MD1)	4) Introduce the multiplication symbol (MD-2) 5) Multiplication sentences (MD-2) 6) Use arrays (MD-2) 7) Make equal groups – grouping (MD-1)	8) Make equal groups – sharing (MD-1) 9) The 2 times-table (MD1) 10) Divide by 2 (MD-2) 11) Doubling and halving	12) Odd and even numbers (MD-1) 13) The 10 times-table (MD-1) 14) Divide by 10 (MD-2)
Vocabulary (Year group specific)	Value	Value Change	Consolidate Y1 language	Consolidate Y1 language	Multiplication tables Consolidate Y1 language	Multiplication tables Consolidate Y1 language Odd numbers Even numbers
Previous years vocab	Money Coins Notes Pounds Pence	Money Coins Notes Pounds Pence	Multiplication Division Arrays Grouping Sharing Equal Unequal Total	Multiplication Division Arrays Grouping Sharing Equal Unequal Total	Multiplication Division Arrays Grouping Sharing Equal Unequal Total Doubling Halving	Multiplication Division Arrays Grouping Sharing Equal Unequal Total

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Multiplication and division	Measurement: Length and Height	Measurement: Length and Height	Measurement: Mass, capacity and temperature	Measurement: Mass, capacity and temperature	Measurement: Mass, capacity and temperature
Lesson objectives (Small steps)	15) The 5 times-table (MD1) 16) Divide by 5 (MD-2) 17) The 5 and 10 timestable (MD-1) 18) Mini-assessment (end of unit assessment)	1) Measure in centimetres 2) Measure in metres 3) Compare lengths and heights	4) Order lengths and heights 5) Four operations with lengths and heights 6) Mini-assessment (end of unit assessment)	1) Compare mass 2) Measure in grams 3) Measure mass in Kgs	4) Four operations with mass 5) Compare volume and capacity 6) Measure in Millilitres	7) Litres 8) Four operations with volume and capacity 9) Temperature 10) Mini-assessment (end of unit assessment)
Vocabulary (Year group specific)	Multiplication tables Consolidate Y1 language Odd numbers Even numbers	Standard units Estimate Measure Compare Order Centimetre cm Metre m	Standard units Estimate Measure Compare Order Centimetre cm Metre m	Kilogram kg Gram g	Millilitres ml Litres l	Temperature Celsius
Previous years vocab	Multiplication Division Arrays Grouping Sharing Equal Unequal Total	Measure Length	Measure Length	Mass Weight	Capacity Volume Full/empty More than Less than Half/half full	Mass Weight Capacity Volume Full/empty More than Less than Half/half full

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Fractions	Number: Fractions	Measurement: Fractions	Measurement: Time	Measurement: Time	Consolidation week
Lesson objectives (Small steps)	1. Introduction to parts and whole 2. Equal and unequal parts 3. Recognise a half 4. Find a half 5. Recognise a quarter	6. Find a quarter 7. Recognise a third 8. Find a third 9. Find the whole 10. Unit fractions	11. Non-unit fractions 12. Recognise the equivalence of half and two quarters 13. Recognise three-quarters 14. Find three quarters 15. Count in fractions up to a whole	1. O'clock 2. Quarter past and quarter to 3. Tell time past the hour 4. Tell time to the hour	5. Tell time to 5 minutes 6. Minutes in the hour 7. Hours in the day 8. Mini assessment	Revisit concepts children struggled with as well as act as a buffer for any units that overran
Vocabulary (Year group specific)	Three quarters Third Equivalent fractions Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalent fractions Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalent fractions Unit fractions Non-unit fractions Numerator Denominator One whole	Intervals of time Quarter past /to Duration	Intervals of time Quarter past /to Duration	
Previous years vocab	Whole Half Quarter Equal parts	Whole Half Quarter Equal parts	Whole Half Quarter Equal parts	Chronological order Days of the week Months of the year Month Year O'clock Alf past second	Chronological order Days of the week Months of the year Month Year O'clock Alf past second	

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Statistics	Number: Statistics	Measurement: Position and direction	Measurement: Position and direction	Consolidation week	Consolidation week
Lesson objectives (Small steps)	1. Make a tally chart 2. Tables 3. Block diagrams	4. Draw pictograms (1-1) 5. Interpret pictograms (1-1) 6. Draw pictograms (2, 5 and 10) 7. Interpret pictograms (2, 5 and 10) 8. Mini assessments	1. Language of position 2. Describe movement 3. Describe turns	4. Describe movement and turns 5. Shape patterns with turns 6. Mini assessment		
Vocabulary (Year group specific)	Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Clockwise/anti-clockwise Straight line Rotation Arrange Sequences	Clockwise/anti-clockwise Straight line Rotation Arrange Sequences		
Previous years vocab			Position Direction Movement Whole turn Quarter turn Half turn Three-quarter turn	Position Direction Movement Whole turn Quarter turn Half turn Three-quarter turn		

Year Three - National Curriculum

Number - Number and Place Value Count from 0 in multiples of 4, 8, 50 and 100; find 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) Compare and order numbers up to 1000 Identify, represent and estimate numbers using different representations Read and write numbers up to 1000 in numerals and in words Solve number problems and practical problems involving these ideas	**Number – Addition and Subtraction** Add and subtract numbers mentally, including: -a three-digit number and ones -a three-digit number and tens -a three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	**Number – Multiplication and Division** Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	**Number – Fractions** Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators Add and subtract fractions with the same denominator within one whole [for example 5/7 + 1/7 = 6/7] Compare and order unit fractions, and fractions with the same denominators Solve problems that involve all of the above
Measurement Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Measure the perimeter of simple 2-D shapes Add and subtract amounts of money to give change, using both £ and p in practical contexts Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12hour and 24-hour clocks Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events [for example to calculate the time taken by particular events or tasks]	**Geometry – Properties of Shape** Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	**Geometry – Position and Direction**	**Statistics** Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**
Lesson objectives (Small steps)	1. Represent numbers to 100 2. Partition numbers to 100 3. Numbers line to 100 4. Hundreds 5. Represent numbers to 1000	6. Partition numbers to 1000 7. Flexible partitioning of numbers to 1000 8. Hundreds, tens and ones 9. Find 1,10 and 100 more or less 10. Number line to 1000	11. Estimate on a number line to 1000 12. Compare numbers to 1000 13. Order numbers to 1000 14. Count in 50s	1. Apply number bonds within 10 2. Add and subtract 1s 3. Add and subtract 10s 4. Add and subtract 100s 5. Spot the pattern	6. Add 1s across a 10 7. Add 10s across 100 8. Subtract 1s across a 10 9. Subtract 10s across 100 10. Make connections	11. Add two numbers (no exchange) 12. Subtract two numbers (no exchange) 13. Add two numbers (across a 10) 14. Add two numbers (across a 100)	15. Subtract two numbers (across a 10) 16. Subtract two numbers (across a 100) 17. Add 2-digit and 3digit numbers 18. Subtract a 2-digit number from a 3-digit number
Vocabulary (Year group specific)	• Three-digit • hundreds	• Three-digit • 10 or 100 more 10 or 100 less hundreds	• Three-digit • ascending • descending • hundreds 10 or 100 more • 10 or 100 less	• 3 digit number • Estimate	• 3-digit number • Column addition • Column subtraction • Estimate • Exchange	• 3-digit number • Column addition • Column subtraction • Estimate • Exchange	• 3-digit number • Column addition • Column subtraction • Estimate • Exchange
Previous years Vocabulary	• Multiples • Place value • Compare • Count in steps • Estimate • Partition • Tens • Ones	• Place value • Compare • Count in steps • Estimate • Partition • Tens • Ones	• Multiples • Place value • Compare • Count in steps • Digit • Two digits • Estimate	• Facts • 2-digit number • Commutative • Inverse • Number bonds • Addition/add • Subtraction/subtract	• Facts • 2-digit number • Commutative • Inverse • Addition/add • Subtraction/subtract	• Facts • 2-digit number • Commutative • Inverse • Addition/add • Subtraction/subtract	• Facts • 2-digit number • Commutative • Inverse • Addition/add • Subtraction/subtract

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Addition and subtraction**	**Number: Multiplication and division A**	**Assessment/ consolidation week**	**Number: Multiplication and division A**	**Number: Multiplication and division A**	**Number: Multiplication and division A**	**Consolidation week**
Lesson objectives (Small steps)	1. Complements to 100 2. Estimate answers 3. Inverse operations 4. Make decisions	5. Multiplication – equal groups 6. Using arrays 7. Multiples of 2 Multiples of 5 and 10	Assessment week or consolidation week. This can also act as a buffer for any units that overran	1. Sharing and grouping 2. Multiply by 3 3. Divide by 3 4. The 3 times-table	5. Multiply by 4 6. Divide by 4 7. The 4 times-tables 8. Multiply by 8	9. Divide by 8 10. The 8 times-table 11. The 2, 4 and 8 times-tables16)	Revisit concepts children struggled with as well as act as a buffer for any units that overran
Vocabulary (Year group specific)	• 3-digit number • Column addition • Column subtraction • Estimate • Exchange • Complements • Operations	• Mathematical statements • Missing number problems • Correspondence problems • Derived facts		• Mathematical statements • Missing number problems • Correspondence problems • Derived facts	• Mathematical statements • Missing number problems • Correspondence problems • Derived facts	• Mathematical statements • Missing number problems • Correspondence problems • Derived facts	
Previous years Vocabulary	• Facts • 2-digit number • Commutative • Inverse	• Commutative • Repeated addition • Multiplication tables • Odd numbers • Even numbers		• Commutative • Repeated addition • Multiplication tables • Odd numbers • Even numbers	• Commutative • Repeated addition • Multiplication tables • Odd numbers • Even numbers	• Commutative • Repeated addition • Multiplication tables • Odd numbers • Even numbers	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Multiplication and division B	Number: Multiplication and division B	Number: Multiplication and division B	Measurement: Length and Perimeter	Measurement: Length and Perimeter	Measurement: Length and Perimeter
Lesson objectives (Small steps)	1) Multiples of 10 (MD-1) 2) Related calculations (MD-1) 3) Reasoning about multiplication (MD-1) 4) Multiply a 2-digit number by a 1 digit number- no exchange (MD-1)	5) Multiply a 2-digit number by 1 digit number – with exchange (MD-1) 6) Link multiplication and division (MD-1) 7) Divide a 2-digit number by a 1-digit number – no exchange (MD-1) 8) Divide a 2-digit number by a 1-digit number – flexible partitioning (MD-1)	9) Divide a 2-digit number by a 1-digit number – with remainders (MD-1) 10) Scaling (NF-3) (MD-1) 11) How many ways? (MD1) 12) Mini assessment (end of unit assessment)	1) Measure in metres and centimetres 2) Measure in millimetres 3) Measure in centimetres and millimetres 4) Metres, centimetres and millimetres	5) Equivalent lengths (metres and centimetres) (NPV-2) 6) Equivalent lengths (centimetres and millimetres) (NPV-2) 7) Compare lengths (NPV3) 8) Add lengths (AS-2)	9) Subtract lengths (AS-2) 10) What is perimeter? (AS-2) 10) Measure perimeter (AS-2) 11) Calculate perimeter (AS-2) 12) Mini assessment (end of unit assessment)
Vocabulary (Year group specific)	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange Remainders	Millimetre mm Equivalent	Millimetre mm Equivalent	Millimetre mm Equivalent Perimeter
Previous years vocab	Commutative Repeated addition Multiplication tables Odd numbers Even numbers Derived facts	Commutative Repeated addition Multiplication tables Odd numbers Even numbers Derived facts	Commutative Repeated addition Multiplication tables Odd numbers Even numbers Derived facts	Standard units Estimate Measure Compare Order Record results Centimetre cm Metre m	Standard units Estimate Measure Compare Order Record results Centimetre cm Metre m	Standard units Estimate Measure Compare Order Record results Centimetre cm Metre m

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Fractions A	Fractions A	Fractions A	Measurement: Mass and capacity	Measurement: Mass and capacity	Measurement: Mass and capacity
Lesson objectives (Small steps)	1) Understand the denominators of unit fractions (F-1) 2) Compare and order unit fractions (F-3) 3) Understand the numerator of non-unit fractions (F-1) 4) Understand the whole (F-1)	5) Compare and order non unit fractions (F-3) 6) Fractions and scales (F3) 7) Fractions on a number line (F-3	8) Count in fractions on a number line (F-3) 9) Equivalent fractions on a number line (F-1) 10) Equivalent fractions as bar models (F-1) 11) Mini assessment (end of unit assessment)	1) Use scales 3) Measure mass in grams 3) Measure mass in kilograms and grams 4) Equivalent masses (kilograms and grams)	5) Compare mass 6) Add and subtract mass 7) Measure capacity and volume in millilitres 8) Measure capacity and volume in litres and millilitres	9) Equivalent capacities and volumes (litres and millilitres) 10) Compare capacity and volume 11) Add and subtract capacity and volume 12) Mini assessment (end of unit assessment)
Vocabulary (Year group specific)	Tenths	Tenths	Equivalent fractions Tenths	Consolidate previous years	Consolidate previous years	Consolidate previous years
Previous years vocab (EYFS)	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	Kilogram kg Gram g Millilitres ml Litres l Quarter full Three-quarter full Scales Temperature Celsius	Kilogram kg Gram g Millilitres ml Litres l Quarter full Three-quarter full Scales Temperature Celsius	Kilogram kg Gram g Millilitres ml Litres l Quarter full Three-quarter full Scales Temperature Celsius

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Fractions (B)	Number: Fractions (B)	Measurement: Money	Measurement: Money	Measurement: Time	Measurement: Time
Lesson objectives (Small steps)	1. Add fractions 2. Subtract fractions 3. Partition the whole	4. Unit fractions of a set of objects 5. Non-unit fractions of a set of objects 6. Reasoning with fractions of an amount 7. Mini assessment	1. Pounds and pence 2. Convert pounds and pence 3. Add money	4. Subtract money 5. Find change 6. Mini assessment	1. Roman numerals to 12 2. Tell the time to five minutes 3. Tell the time to the minute 4. Read time on a digital clock	5. Use of am and pm 6. Years, months and days 7. Days and hours 8. Hours and minutes – use start and end times
Vocabulary (Year group specific)	tenths	tenths			Analogue clock Roman numerals 12-hour clock 24-hour clock Am/pm Noon Midnight Leap year digitals	Analogue clock Roman numerals 12-hour clock 24 hour clock Am/pm Noon Midnight Leap year digitals
Previous years vocab	Three quarters Third Equivalent fractions Unit fractions Non-unit fractions Numerator Denominator One whole	Three quarters Third Equivalent fractions Unit fractions Non-unit fractions Numerator Denominator One whole	Value Change	Value Change	Intervals of time Quarter past/to duration	Intervals of time Quarter past/to duration

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Measurement: Time	Geometry: Shape	Geometry: Shape	Statistics	Statistics	Consolidation week
Lesson objectives (Small steps)	9. Hours and minutes – use durations 10. Minutes and seconds 11. Units of time 12. Solve problems with time 13. Mini Assessment	1. Turns and angles 2. Right angles 3. Compare angles 4. Measure and draw accurately 5. Horizontal and vertical	6. Parallel and perpendicular 7. Recognise and describe 2d shapes 8. Draw polygons 9. Recognise and describe 3d shapes 10. Mini Assessment	1. Interpret pictograms 2. Draw pictograms 3. Interpret bar charts	4. Draw bar charts 5. Collect and represent data 6. Two way tables 7. Mini Assessment	
Vocabulary (Year group specific)	Analogue clock Roman numerals 12-hour clock 24 hour clock Am/pm Noon Midnight Leap year digitals	Right angle triangle Heptagon Octagon Polygon Properties prism	Right angle triangle Heptagon Octagon Polygon Properties prism	Table Bar chart One-step problem Two-step problem	Table Bar chart One-step problem Two-step problem	
Previous years vocab	Intervals of time Quarter past/to duration	Pentagon Hexagon Line of symmetry Properties Cylinder Edges Vertices Vertex	Pentagon Hexagon Line of symmetry Properties Cylinder Edges Vertices Vertex	Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal Vertical	Pictograms Tally chart Block diagram Category Sorting Totalling Comparing Horizontal Vertical	

Year Four - National Curriculum

Number - Number and Place Value Count in multiples of 6, 7, 9, 25 and 1000 Find 1000 more or less than a given number Count backwards through zero to include negative numbers Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value	**Number – Addition and Subtraction** Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	**Number – Multiplication and Division** Recall multiplication and division facts for multiplication tables up to 12 × 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations Multiply two-digit and three-digit numbers by a one-digit number using formal written layout Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	**Number – Fractions (including decimals)** Recognise and show, using diagrams, families of common equivalent fractions Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Add and subtract fractions with the same denominator Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalents to ¼, ½, ¾ Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Round decimals with one decimal place to the nearest whole number Compare numbers with the same number of decimal places up to two decimal places Solve simple measure and money problems involving fractions and decimals to two decimal places
Measurement Convert between different units of measure [for example, kilometre to metre; hour to minute] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the area of rectilinear shapes by counting squares Estimate, compare and calculate different measures, including money in pounds and pence Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	**Geometry – Properties of Shape** Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify acute and obtuse angles and compare and order angles up to two right angles by size Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry	**Geometry – Position and Direction** Describe positions on a 2-D grid as coordinates in the first quadrant Describe movements between positions as translations of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon	**Statistics** Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

Courage **Resilience** **Honesty** **Kindness**

Matthew 7:24 - "Therefore everyone who hears these words of mine and puts them into practice is like a wise man who built his house on the rock"

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Addition and subtraction**
Lesson objectives (Small steps)	1. Represent numbers to 1,000 2. Partition numbers to 1,000 3. Number line to 1,000 4. Thousands	5. Represent numbers to 10,000 6. Partition numbers to 10,000 7. Flexible partitioning of numbers to 10,000 8. Find 1, 10, 100, 1000 more or less	9. Number line to 10,000 10. Estimate on a number line to 10,000 11. Compare numbers to 10,000 12. Order numbers to 10,000 13. Roman numerals	14. Round to the nearest 10 15. Round to the nearest 100 16. Count in 25s 17. Round to the nearest 1,000 18. Round to the nearest 10, 100 or 1,000	1. Add and subtract 1s, 2. 10s, 100s and 1000s Add up to two 4digit numbers – no exchange 3. Add two 4-digit numbers – one exchange 4. Add two 4-digit numbers – More than one exchange	5. Subtract two 4-digit numbers – no exchange 6. Subtract two 4-digit numbers – one exchange 7. Subtract two 4-digit numbers – more than one exchange	8. Efficient subtraction 9. Estimate answers 10. Checking strategies
Vocabulary (Year group specific)	• Four-digit • Thousands	• Four-digit • Thousands • 1000 more • 1000 less	• Thousands • Four-digit • 1000 more • 1000 less • Roman Numerals • Round	• Thousands • 1000 more • 1000 less • Four-digit • Round	• 4-digit number • Thousands • Operations • Methods	• 4-digit number • Thousands • Operations • Methods	• 4-digit number • Thousands • Operations • Methods
Previous years Vocabulary	• Count in multiples • 3-digit number • Hundreds • 10 or 100 more • 10 or 100 less	• Count in multiples • 3-digit number • Hundreds • 10 or 100 more • 10 or 100 less	• Count in multiples • 3-digit number • Hundreds • 10 or 100 more • 10 or 100 less	• Count in multiples • 3-digit number • Hundreds • 10 or 100 more • 10 or 100 less	• 3-digit number • Hundreds • Column addition • Column subtraction • Exchange • Estimate • Complements • Operations	• 3-digit number • Hundreds • Column addition • Column subtraction • Exchange • Estimate • Complements • Operations	• 3-digit number • Hundreds • Column addition • Column subtraction • Exchange • Estimate • Complements • Operations

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Measurement: Area**	**Number: Multiplication and division**	**Assessment/ consolidation week**	**Number: Multiplication and division**	**Number: Multiplication and division**	**Number: Multiplication and division**	**Consolidation**
Lesson objectives (Small steps)	1. What is area? 2. Count squares 3. Make shapes 4. Comparing areas Unit could be extended to be over two weeks and time taken from assessment week or Multiplication and Division	1. Multiples of 3 2. Multiply and divide by 6 3. 6 times-table and division facts	Week can be used to carry out assessment or as an opportunity to consolidate learning done so far. Also can be used as a buffer for any units that overrun such as area	4. Multiply and divide by 9 5. 9 times-table and division facts 6. 3-, 6- and 9-times table	7. Multiply and divide by 7 8. 7 times-table and division facts 9. 11 times-table and division facts 10. 12 times-table and division facts	11. Multiply by 1 and 0 12. Divide a number by 1 and itself 13. Multiply 3 numbers	Week used for additional activities on content learnt or as consolidation. Could also be used to bring forward the first week of next term.
Vocabulary (Year group specific)	• Area	• Derived facts • Distributive law		• Derived facts • Distributive law	• Derived facts • Distributive law	• Derived facts • Distributive law	
Previous years Vocabulary	N/A	• Mathematical statements • Missing number problems • Integer scaling problems • Correspondence problems • Derived Facts		• Mathematical statements • Missing number problems • Integer scaling problems • Correspondence problems • Derived Facts	• Mathematical statements • Missing number problems • Integer scaling problems • Correspondence problems • Derived Facts	• Mathematical statements • Missing number problems • Integer scaling problems • Correspondence problems • Derived Facts	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Multiplication and division B	Number: Multiplication and division B	Number: Multiplication and division B	Measurement: Length and perimeter	Measurement: Length and perimeter	Fractions
Lesson objectives (Small steps)	1) Factor pairs (MD-2) 2) Use factor pairs (MD-2) 3) Multiply by 10 (MD-1) 4) Multiply by 100 (MD-1) 5) Divide by 10 (MD-1)	6) Divide by 100 (MD-1) 7) Related facts – multiplication and division (MD-2) 8) Informal written methods for multiplication 9) Multiply a 2-digit number by a 1-digit number 10) Multiply a 3-digit number by a 1-digit number	11) Divide a 2-digit number by a 1-digit number (1) 12) Divide a 2-digit number by a 1-digit number (2) 13) Divide a 3-digit number by a 1-digit number 14) Correspondence problems (MD-3) 15) Efficient multiplication (MD-3) 16) Mini-assessment (end of unit assessment)	1) Measure in kilometres and metres 2) Equivalent lengths (kilometres and metres) 3)Perimeter on a grid (G-2) 4) Perimeter of a rectangle (G-2) 5) Perimeter of rectilinear shapes (G-2)	6) Find missing shapes in rectilinear shapes (G-2) 7) Calculate the perimeter of rectilinear shapes (G-2) 8) Perimeter of regular polygons (G-2) 9) Perimeter of polygons (G-2) 10) Mini-assessment (end of unit assessment)	1) Understand the whole 2) Count beyond 1 3) Partition a mixed number (F-2) 4) Number lines with mixed numbers (F-1)
Vocabulary (Year group specific)	Formal written layout Factor pairs Distributive law	Formal written layout Factor pairs Distributive law Remainders	Formal written layout Factor pairs Distributive law Remainders	Rectilinear figure Kilometres	Rectilinear figure Kilometres	Convert Proper fractions Improper fractions
Previous years vocab (EYFS)	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange Derived facts Remainders	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange Derived facts Remainders	Mathematical statements Missing number problems Integer scaling problems Correspondence problems Exchange Derived facts Remainders	Millimetre mm Perimeter	Millimetre mm Perimeter	Equivalent fractions Tenths Numerator Denominator One whole

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Fractions	Fractions	Fractions	Decimals	Decimals	Decimals
Lesson objectives (Small steps)	5) Compare and order mixed numbers (F-1) 6) Understand improper fractions (F-2) 7) Convert mixed numbers to improper fractions (F-2) 8) Convert improper fractions to mixed numbers (F-2)	9) Equivalent fractions on a number line (F-1) 10) Equivalent fraction families (F-1) 11) Add two or more fractions (F-3) 12) Add fractions and mixed numbers (F-3)	13) Subtract two fractions (F-3) 14) Subtract from whole amounts (F-3) 15) Subtract from mixed numbers (F-3) 16) Mini assessment (end of unit assessment	1) Tenths as fractions 2) Tenths as decimals 3) Tenths on a place value chart 4) Tenths on a number line	5) Divide 1-digit number by 10 6) Divide 2-digit number by 10 7) Hundredths as fractions 8) Hundredths as decimals	9) Hundredths on a place value grid 10) Divide 1- or 2-digit number by 100 11) Mini assessment (end of unit assessment Rest of the week to be used for consolidation and ass buffer for any units that overrun
Vocabulary (Year group specific)	Convert Proper fractions Improper fractions Mixed numbers	Convert Proper fractions Improper fractions Mixed numbers	Convert Proper fractions Improper fractions Mixed numbers	Decimal equivalence Hundredths	Decimal equivalence Hundredths	Decimal equivalence Hundredths
Previous years vocab (EYFS)	Equivalent fractions Tenths Numerator Denominator One whole	Equivalent fractions Tenths Numerator Denominator One whole	Equivalent fractions Tenths Numerator Denominator One whole	Tenths	Tenths	Tenths

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Decimals	Decimals	Measurement: money	Measurement: money	Measurement: Time	Measurement: Time
Lesson objectives (Small steps)	1. Make a whole with tenths 2. Make a whole with hundredths 3. Partition decimals 4. Flexibly partition decimals	5. Compare decimals 6. Order decimals 7. Round to the nearest whole number 8. Halves and quarters 9. Mini Assessment	1. Write money using decimals 2. Convert between pounds 3. Compare amounts of money	4. Estimate with money 5. Calculate with money 6. Solve problems with money 7. Mini assessment	1. Years, months, weeks and days 2. Hours, minutes and seconds 3. Convert between analogue and digital times	4. Convert to the 24-hour clock 5. Convert from the 24-hour clock
Vocabulary (Year group specific)	Decimal equivalence Hundredths Covert Proper fractions Improper fractions Decimal point	Decimal equivalence Hundredths Covert Proper fractions Improper fractions Decimal point			Convert	Convert
Previous years vocab	tenths	tenths			Analogue clock Roman numerals 12-hour clock 24 hour clock Am/pm Noon Midnight Leap year digital	Analogue clock Roman numerals 12-hour clock 24 hour clock Am/pm Noon Midnight Leap year digital

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Geometry: Shape	Geometry: Shape	Statistics	Statistics	Geometry: Position and direction	Geometry: Position and direction
Lesson objectives (Small steps)	1. Understand angles as turns 2. Identify angles 3. Compare and order angles 4. Triangles	5. Quadrilaterals 6. Polygons 7. Lines of symmetry 8. Complete a symmetric figure 9. Mini assessment	1. Interpret charts 2. Comparison, sum and difference	3. Interpret line graphs 4. Draw line graphs 5. Mini assessment	1. Describe a position using coordinates 2. Plot coordinates 3. Draw 2d shapes on a grid	4. Translate on a grid 5. Describe translation on a grid 6. Mini assessment
Vocabulary (Year group specific)	Isosceles Equilateral Scalene Trapezium Rhombus Parallelogram Kite Geometric shapes Quadrilaterals	Isosceles Equilateral Scalene Trapezium Rhombus Parallelogram Kite Geometric shapes Quadrilaterals	Time graph Discrete data Continuous data Line graph Comparison problem Sum problem Difference problem Calculate Interpret	Time graph Discrete data Continuous data Line graph Comparison problem Sum problem Difference problem Calculate Interpret	Coordinates First quadrant Grid Translation Plot Polygon Axis	Coordinates First quadrant Grid Translation Plot Polygon Axis
Previous years vocab	Right-angle triangle Heptagon Octagon Polygon Properties Prism	Right-angle triangle Heptagon Octagon Polygon Properties Prism	Table Bar chart One-step problem Two step problem	Table Bar chart One-step problem Two step problem		

Year 5 - National Curriculum

Number - Number and Place Value

Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000
Solve number problems and practical problems that involve all of the above
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals

Number – Addition and Subtraction

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
Add and subtract numbers mentally with increasingly large numbers
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
Solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why

Number – Multiplication and Division

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers
Establish whether a number up to 100 is prime and recall prime numbers up to 19
Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
Multiply and divide numbers mentally drawing upon known facts
Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
Recognise and use square numbers and cube numbers, and the notation for squared and cubed
Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Number – Fractions (including decimals and percentages)

Compare and order fractions whose denominators are all multiples of the same number
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]
Add and subtract fractions with the same denominator and denominators that are multiples of the same number
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Read and write decimal numbers as fractions [for example, 0.71 = 71/100]
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Round decimals with two decimal places to the nearest whole number and to one decimal place
Read, write, order and compare numbers with up to three decimal places
Solve problems involving number up to three decimal places
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
Solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25

Measurement

Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes
Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water]
Solve problems involving converting between units of time
Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling

Geometry – Properties of Shape

Identify 3-D shapes, including cubes and other cuboids, from 2-D representations
Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
Draw given angles, and measure them in degrees Identify:
-angles at a point and one whole turn (total 360o)
-angles at a point on a straight line and ½ a turn (total 180 degrees)
-other multiples of 90degrees
Use the properties of rectangles to deduce related facts and find missing lengths and angles
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles

Geometry – Position and Direction

Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed

Statistics

Solve comparison, sum and difference problems using information presented in a line graph
Complete, read and interpret information in tables, including timetables

Courage **Resilience** **Honesty** **Kindness**

Matthew 7:24 - "Therefore everyone who hears these words of mine and puts them into practice is like a wise man who built his house on the rock"

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Place Value**	**Number: Place Value**	**Number: Place Value**	**Number: Addition and subtraction**	**Number: Addition and subtraction**	**Number: Multiplication and division A**	**Number: Multiplication and division A**
Lesson objectives (Small steps)	1. Roman numerals to 1000 2. Numbers to 10,000 3. Number to 100,000 4. Numbers to 1,000,000 5. Read and write numbers to 1,000,000	6. Powers of 10 7. 10/100/1000/10,000/ 1000,000 more or less 8. Partition numbers to 1,000,000 9. Number line to 1,000,000 10. Compare and order numbers to 100,000	11. Compare and order numbers to a 1,000,000 12. Round to the nearest 10, 100 and 1,000 13. Round within 100,000 14. Round within 1,000,000	1. Mental strategies 2. Add whole numbers with more than four digits 3. Subtract whole numbers with more than four digits 4) 4. Round to check answers	5. Inverse operations 6. Multi-step addition and subtraction problems 7. Compare calculations 8. Find missing numbers	1. Multiples 2. Common multiples 3. Factors 4. Common Factors	5. Prime numbers 6. Square numbers 7. Cube Numbers
Vocabulary (Year group specific)	• Ten Thousand • One Hundred • Thousand • Integer	• Powers of • Ten Thousand • One Hundred Thousand • Integer	• Powers of • Ten Thousand • One Hundred • Thousand • Integer	• Consolidate previous years' vocab	• Consolidate previous years' vocab	• Multiples • Factors • Prime numbers • Product	• Multiples • Factors • Prime numbers • Square Numbers • Cube Numbers • Product
Previous years Vocabulary	• 1000 more • 1000 less • Count backwards • Four digit • Round • Roman numerals • Thousands	• 1000 more • 1000 less • Count backwards • Four digit • Round • Roman numerals • Thousands	• 1000 more • 1000 less • Count backwards • Four digit • Round • Roman numerals • Thousands	• Operations • Methods • Inverse • Round • Strategies • Calculations	• Operations • Methods • Inverse • Round • Strategies • Calculations	• Factor pairs • Derived facts • Distributive law • Formal written layout • Remainders	• Factor pairs • Derived facts • Distributive law • Formal written layout • Remainders

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Multiplication and division A**	**Number: Fractions A**	**Number: Fractions A**	**Assessment week/consolidation week**	**Number: Fractions A**	**Number: Fractions A**	**Consolidation week**
Lesson objectives (Small steps)	1. Multiply by 10, 100 and 1000 2. Divide by 10, 100 & 1000 3. Multiples of 10, 100 & 1000	1. Find fractions equivalent to a unit fraction 2. Find fractions equivalent to a non-unit fraction 3. Recognise equivalent fractions 4. Convert improper fractions to mixed numbers	5. Convert mixed numbers to improper fractions 6. Compare fractions less than 1 7. Order fractions less than 1 8. Compare and order fractions greater than 1 9. Add and subtract fractions with the same denominator	Week can be used to carry out assessment or as an opportunity to consolidate learning done so far. Also can be used as a buffer for any units that overrun.	10. Add fractions within 1 11. Add fractions with total greater than 1 12. Add to a mixed number 13. Add two mixed numbers	14. Subtract fractions Subtract from a mixed number 15. Subtract from a mixed number – breaking the whole 16. Subtract mixed numbers	This week to act as a buffer for any units that over run or to revisit concepts children struggled with (also Xmas week and INSETs may be taking place)
Vocabulary (Year group specific)	• Multiples • Factors • Prime numbers • Square Numbers • Cube Numbers • Product	• Mixed numbers • Fifths • Proper fractions • Improper fractions • Equivalent fractions	• Mixed numbers • Fifths • Proper fractions • Improper fractions • Equivalent fractions		• Mixed numbers • Fifths • Proper fractions • Improper fractions • Equivalent fractions	• Mixed numbers • Fifths • Proper fractions • Improper fractions • Equivalent fractions	
Previous years' Vocabulary	• Factor pairs • Derived facts • Distributive law • Formal written layout • Remainders	• Convert • Proper fractions • Improper fractions • Decimal Equivalence • Hundredth • Unit fractions • Non-unit fractions	• Convert • Proper fractions • Improper fractions • Decimal Equivalence • Hundredth • Unit fractions • Non-unit fractions		• Convert • Proper fractions • Improper fractions • Decimal Equivalence • Hundredth • Unit fractions • Non-unit fractions	• Convert • Proper fractions • Improper fractions • Decimal Equivalence • Hundredths • Unit fractions • Non-unit fractions	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Multiplication and division	Number: Multiplication and division	Number: Multiplication and division	Fractions B	Fractions B	Decimals and percentages
Lesson objectives (Small steps)	1) Multiply up to a 4-digit number by a 1-digit number (MD-3) 2) Multiply a 2-digit number by a 2-digit number (area model) (MD-3) 3) Multiply a 2-digit number by a 2-digit number (MD-3) 4) Multiply a 3-digit number by a 2-digit number (MD-3)	5) Multiply a 4-digit number by a 2-digit number (MD-3) 6) Solve problems with multiplication (MD-3) 7) Short division (MD-4) 8) Divide a 4-digit number by a 1-digit number (MD-4)	9) Divide with remainders (MD-4) 10) Efficient division (MD-4) 11) Solve problems with multiplication and division (MD-3) (MD-4) 12) Mini assessment (end of unit assessment)	1) Multiply a unit fraction by an integer 2) Multiply a non-unit fraction by an integer 3) Multiply mixed numbers by an integer 4) Calculate a fraction of a quantity (F-1	5) Fraction of an amount (F1) 6) Find the whole (F-1) 7) Using fractions as operators (F-1) 8) Mini assessment (End of unit assessment)	1) Decimals up to 2 decimal places (NPV-2) 2) Equivalent fractions and decimals (tenths) (F-3) 3) Equivalent fractions and decimals (hundredths) (F-3) 4) Equivalent fractions and decimals (F-3) 5) Thousands as fractions (F-3)
Vocabulary (Year group specific)	Short division Decimals Product	Short division Decimals Product	Short division Decimals Product	Mixed numbers Fifths Integer	Mixed numbers Fifths Integer	Thousandths Percent %
Previous years vocab (EYFS)	Factor pairs Derived facts Distributive law Formal written layout Remainders Dividend Divisor Quotient Operations	Factor pairs Derived facts Distributive law Formal written layout Remainders Dividend Divisor Quotient Operations	Factor pairs Derived facts Distributive law Formal written layout Remainders Dividend Divisor Quotient Operations	Convert Proper fractions Improper fractions Decimal Equivalence Hundredth Unit fractions Non-unit fractions	Convert Proper fractions Improper fractions Decimal Equivalence Hundredth Unit fractions Non-unit fractions	Decimal equivalence Hundredths

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Decimals and percentages	Decimals and percentages	Measurement: Perimeter and area	Measurement: Perimeter and area	Statistics	Statistics
Lesson objectives (Small steps)	6) Thousands as decimals (NPV-2) 7) Thousandths on a place value chart (NPV-3) 8) Order and compare decimals (same number of decimal places) (NPV-3) 9) Order and compare any decimals with up to 3 decimal places (NPV-3) 10) Round to the nearest whole number (NPV-3)	11) Round to 1 decimal place (NPV-3) 12) Understand percentages 13) Percentages as fractions 14) Percentages as decimals 15) Equivalent fractions, decimals and percentages (F-3) Mini assessment (end of unit assessment)	1) Perimeter of rectangles 2) Perimeter of rectilinear shapes 3) Perimeter of polygons	4) Area of rectangles (G-2) 5) Area of Compound Shapes (G-2) 6) Estimates area (G-2) 7) Mini assessment (end of unit assessment)	1) Draw line graphs (NPV-4) 2) Read and interpret line graphs (NPV-4) 3) Read and interpret tables	4) Two-way tables 5) Read and interpret tables 6) Mini assessment (end of unit assessment)
Vocabulary (Year group specific)	Thousandths Percent %	Thousandths Percent %	Composite rectilinear shape Irregular shapes Square centimetres Square metres	Composite rectilinear shape Irregular shapes Square centimetres Square metres	Timetables Two-way tables	Timetables Two-way tables
Previous years vocab (EYFS)	Decimal equivalence Hundredths	Decimal equivalence Hundredths	Rectilinear figure Area Kilometres	Rectilinear figure Area Kilometres	Line graph Discrete data Continuous data Comparison problem Sum problem Difference problem Calculate Interpret	Line graph Discrete data Continuous data Comparison problem Sum problem Difference problem Calculate Interpret

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Geometry: Shape	Geometry: Shape	Geometry: Position and direction	Geometry: Position and direction	Number Decimals	Number Decimals
Lesson objectives (Small steps)	1. Understand and use degrees 2. Classify angles 3. Estimate angles 4. Measure angles up to 180 5. Draw lines and angles accurately	6. Calculate angles around a point 7. Calculate angles on a straight line 8. Lengths and angles in shapes 9. Regular and irregular polygons 10. 3d shapes	1. Read and plot coordinates 2. Problem solving with coordinates 3. Translation	4. Translation with coordinates 5. Lines of symmetry 6. Reflection in horizontal and vertical lines 7. Mini assessment	1. Use known facts to add and subtract decimals within 1 2. Complements to 1 3. Add and subtract decimals across 1 4. Add decimals with the same number of decimal places	5. Subtract decimals with the same number of decimal places 6. Add decimals with different number of decimal places 7. Subtract decimals with different number of decimal places 8. Efficient strategies for adding and subtracting decimals
Vocabulary (Year group specific)	Reflex angles Degrees One whole turn Angles on a straight line Angles around a point Vertically opposite Missing angles	Reflex angles Degrees One whole turn Angles on a straight line Angles around a point Vertically opposite Missing angles	Reflection	Reflection	Thousands Integer complements	Thousands Integer complements
Previous years vocab			Coordinates First quadrant Gird Translation Plot Polygon axis	Coordinates First quadrant Gird Translation Plot Polygon axis	Decimal equivalence Hundredths Convery Decimal point	Decimal equivalence Hundredths Convery Decimal point

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number Decimals	Number: Negative numbers	Measurement: Converting units	Measurement: Converting units	Measurement: volume	Consolidation week
Lesson objectives (Small steps)	9. Decimal sequences 10. Multiply by 10, 100 and 1000 11. Divide by 10, 100 and 1000 12. Multiply and divide decimals – missing values	1. Understand negative numbers 2. Count through zero in 1s 3. Count through zero in multiples 4. Compare and order negative numbers 5. Find the difference	1. Kilograms and kilometres 2. Millimetres and millilitres 3. Convert units of length	4. Convert between metric and imperial units 5. Convert units of time 6. Calculate with timetables 7. Mini assessment	1. Cubic centimetres 2. Compare volume 3. Estimate volume 4. Estimate capacity 5. Mini assessment	
Vocabulary (Year group specific)	Thousands Integer complements		Cubic centimetre Pounds pints	Pounds pints	Cubic centimetre	
Previous years vocab	Decimal equivalence Hundredths Convery Decimal point					

Year 6 - National Curriculum

Number - Number and Place Value

Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit

Round any whole number to a required degree of accuracy

Use negative numbers in context, and calculate intervals across zero

Solve number and practical problems that involve all of the above.

Number – Addition, Subtraction, Multiplication and Division

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication

Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Perform mental calculations, including with mixed operations and large numbers

Identify common factors, common multiples and prime numbers

Use their knowledge of the order of operations to carry out calculations involving the four operations

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Number – Fractions (including decimals and percentages)

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

Compare and order fractions, including fractions > 1

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ x ½ = 1/8]

Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6]

Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]

Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

Multiply one-digit numbers with up to two decimal places by whole numbers

Use written division methods in cases where the answer has up to two decimal places

Solve problems which require answers to be rounded to specified degrees of accuracy

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Number – Ratio and Proportion

Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts

Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison

Solve problems involving similar shapes where the scale factor is known or can be found

Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

Number - Algebra

Use simple formulae

Generate and describe linear number sequences

Express missing number problems algebraically

Find pairs of numbers that satisfy an equation with two unknowns

Enumerate possibilities of combinations of two variables

Measurement

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate

Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places

Convert between miles and kilometres

Recognise that shapes with the same areas can have different perimeters and vice versa

Recognise when it is possible to use formulae for area and volume of shapes

Calculate the area of parallelograms and triangles

Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]

Geometry – Properties of Shape

Draw 2-D shapes using given dimensions and angles

Recognise, describe and build simple 3-D shapes, including making nets

Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons

Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius

Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

Geometry – Position and Direction

Describe positions on the full coordinate grid (all four quadrants)

Draw and translate simple shapes on the coordinate plane, and reflect them in the axes

Statistics

Interpret and construct pie charts and line graphs and use these to solve problems

Calculate and interpret the mean as an average

Courage **Resilience** **Honesty** **Kindness**

Matthew 7:24 - "Therefore everyone who hears these words of mine and puts them into practice is like a wise man who built his house on the rock"

Autumn 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: place value**	**Number: place value**	**Number: addition, subtraction, multiplication, division.**	**Number: addition, subtraction, multiplication, division.**	**Number: addition, subtraction, multiplication, division.**	**Number: addition, subtraction, multiplication, division.**	**Number: addition, subtraction, multiplication, division.**
Lesson objectives (Small steps)	1. Numbers to a 1,000,000 2. Numbers to 10,000,000 3. Read and write numbers to 10,000,000 4. Power of 10	5. Number line to10,000,000 6. Compare and order any integers 7. Round any integer 8. Negative numbers	1. Add and subtract integers 2. Common factors 3. Common multiples 4. Rules of divisibility	5. Primes to 100 6. Square and cube numbers 7. Multiply up to a 4-digit number by a 2-digit number 8. Solve problems with multiplication	9. Short division 10. Division using factors 11. Introduction to long division	12. Long division with remainders 13. Solve problems with division 14. Solve multi-step problems	15. Order of operations 16. Mental calculation and estimation 17. Reason with known facts
Vocabulary (Year group specific)	• Calculate intervals • Integer • Millions • Ten Million	• Calculate intervals • Integer • Millions • Ten Million • Negative numbers	• Multi-digit number • Long multiplication • Divisibility	• Multi-digit number • Long multiplication	• Multi-digit number • Factors • Long division	• Multi-digit number • Factors • Long division	• Multi-digit number • Factors • Long division
Previous years' Vocabulary	• Powers of • Rounding • Ten Thousand • One Hundred • Thousand • Integer •	• Powers of • Rounding • Ten Thousand • One Hundred • Thousand • Integer	• Multiples • Factors • Short division • Remainders • Decimals • Product • Operations • Integers	• Multiples • Factors • Short division • Prime numbers • Square Numbers • Cube Numbers • Remainders • Decimals • Product • Operations • Integers	• Multiples • Factors • Short division • Remainders • Decimals • Dividend • Divisor • Quotient • Operations • Integers	• Multiples • Factors • Remainders • Decimals • Product • Dividend • Divisor • Quotient • Operations • Integers	• Multiples • Factors • Short division • Remainders • Decimals • Product • Dividend • Divisor • Quotient • Operations

Autumn 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Units	**Number: Fractions A**	**Number: Fractions A**	**Number: Fractions B**	**Number: Fractions B**	**Assessment week/consolidation week**	**Measurement: converting units**	**Consolidation week**
Lesson objectives (Small steps)	1. Equivalent fractions and simplifying 2. Equivalent fractions on a number line 3. Compare and order (denominator) 4. Compare and order (numerator)	5. Add and subtract simple fractions 6. Add and subtract any two fractions 7. Add mixed numbers 8. Subtract mixed numbers 9. Multi-step problems	10. Multiply fractions by integers 11. Multiply fractions by fractions 12. Divide a fraction by an integer 13. Divide any fraction by an integer	14. Mixed questions with fractions 15. Fraction of an amount 16. Fraction of an amount – find the whole	Week can be used to carry out assessment or as an opportunity to consolidate learning done so far. Also, can be used as a buffer or to extend Fractions B	1. Metric measures 2. Convert metric measures 3. Calculate with metric measures Miles and kilometres Imperial measures	This week to act as a buffer for any units that over run or to revisit concepts children struggled with (also Xmas week and INSETs may be taking place)
Vocabulary (Year group specific)	• Factors Integer	• Factors Integer	• Factors Integer	• Factors Integer		• Conversion • Miles • Formulae	
Previous years Vocabulary	• Fifth • thousandths Convert • Proper fractions • Improper fractions • Mixed numbers • Equivalent fractions • Multiples • Simplifying • Complements	• Fifth • thousandths Convert • Proper fractions • Improper fraction • Mixed numbers • Equivalent fractions • Multiples • Simplifying • Complements	• fifth • thousandths convert • proper fractions • improper fractions • mixed numbers • Equivalent fractions • multiples Simplifying • Complements	• Fifth • thousandths Convert • Proper fractions • Improper fractions • Mixed numbers • Equivalent fractions • Multiples • Simplifying • Complements		• Decimal notation • Scaling • Metric units • Imperial units • Inches • Pounds • Pints	

Spring 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Ratio	Number: Ratio	Number: Algebra	Number: Algebra	Number: Decimals	Number: Decimals
Lesson objectives (Small steps)	1) Add or multiply? (MD-3) 2) Using ratio language (MD-3) 3) Introducing the ratio symbol (MD-3) 4) Ratio and fractions (MD3) 5) Scale drawing (MD-3)	6) Use scale factors (MD-3) 7) Similar shapes (MD-3) 8) Ratio problems (MD-3) 9) Proportion problems (MD-3) 10) Recipes End of unit assessment	1) 1-step function machines 2) 2-step function machines 3) Form expressions 4) Substitution 5) Formulae	6) Form equations 7) Solve 1-step equations 8) Solve 2-step equations 9) Find pairs of values (MD4) 10) Solve Problems with two unknows (MD-4) End of unit assessment	1) Place value within 1 2) Place value – integers and decimals 3) Round decimals 4) Add and subtract decimals 5) Multiply by 10, 100 and 1000	6) Divide by 10, 100 and 1000 7) Multiply decimals by integers 8) Divide decimals by integers 9) Multiply and divide decimals in context End of unit assessment
Vocabulary (Year group specific)	Relative size Missing values Integer multiplication Percentages Scale factor Unequal sharing and grouping.	Relative size Missing values Integer multiplication Percentages Scale factor Unequal sharing and grouping.	Formulae Linear number sequences Algebraically Equation Unknowns Combinations Variables	Formulae Linear number sequences Algebraically Equation Unknowns Combinations Variables	Consolidate Y5 language	Consolidate Y5 language
Previous years vocab (EYFS)	N/A	N/A	N/A	N/A	Fifth Thousandths Mixed numbers Per cent % Factors Integer Complements	Fifth Thousandths Mixed numbers Per cent % Factors Integer Complements

Spring 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Number: Fractions, decimals and percentages	Number: Fractions, decimals and percentages	Measurement: Area, perimeter and volume	Measurement: Area, perimeter and volume	Statistics	Statistics
Lesson objectives (Small steps)	1) Decimal and fraction equivalents 2) Fractions as division 3) Understand percentages 4) Fractions to percentages 5) Equivalent fractions, decimals and percentages	6) Order fractions, decimals and percentages 7) Percentage of an amount – one step 8) Percentage of an amount – multi-step 9) Percentages - missing values End of unit assessment	1) Shapes – same area (G1) 2) Area and perimeter (G1) 3) Area of a triangle – counting squares (G-1) 4) Area of a right-angle triangle (G-1) 5) Area of any triangle (G1)	6) Area of parallelogram (G-1) 7) Volume – counting cubes 8) Volume of a cuboid End of unit assessment **Statistics** 1) Line graphs 2) Dual bar charts	1) Line graphs 2) Dual bar charts 3) Read and interpret pie charts 4) Pie charts and percentages	5. Draw pie charts3) Read and interpret pie chart 6. The mean 7. End of unit assessment
Vocabulary (Year group specific)	Consolidate Y5 language	Consolidate Y5 language	Formulae	Formulae Parallelograms Cubic metres Cubic millimetres Cubic kilometres	Pie chart Mean	Pie chart Mean
Previous years vocab (EYFS)	Fifth Thousandths Mixed numbers Per cent % Factors Integer Complements	Fifth Thousandths Mixed numbers Per cent % Factors Integer Complements	Scaling Composite rectilinear shape Irregular shapes Square centimetres Square metres	Cubic centimetres	Timetable Two-way tables	Timetable Two-way tables

Summer 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Geometry: Shape	Geometry: Shape	Geometry: Position and direction	Theme projects, consolidation and problem solving		
Lesson objectives (Small steps)	1. Measure and classify angles 2. Calculate angles 3. Vertically opposite angles 4. Angles in a triangle 5. Angles in a triangle (special cases	6. Angles in a triangle – missing angles 7. Angles in quadrilaterals 8. Angles in polygons 9. Circles 10. Draw shapes accurately 11. Nets of 3d shapes	1. The first quadrant 2. Read and plot points in four quadrants 3. Solve problems with coordinates 4. Translations 5. Reflections			
Vocabulary (Year group specific)		Radius Diameter Circumference dimensions	Four quadrants Co-ordinate plane			
Previous years vocab	Regular polygon Irregular polygon	Regular polygon Irregular polygon	reflection			

Summer 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Units	Theme projects, consolidation and problem solving					
Lesson objectives (Small steps)						
Vocabulary (Year group specific)						
Previous years vocab						