

Curriculum Intent & Progression Document

Mathematics

St. Mary's Catholic Voluntary Academy, Grantham

2023-24



Subject Leader: Miss Steeples

Cathy Steeples
St. Mary's Catholic Voluntary Academy, Grantham
2023-2024

Mission Statement

Christ is at the centre of St. Mary's as we strive to nurture and care for all our community members by encouraging them to **Believe, Succeed** and **Soar** within God's love, to achieve the very best that they can, in all areas.

Our Vision

We are disciples who put our faith into action in all that we do.

We are role models who encourage others to shine and be the best version of themselves that they can be.

We are investigators who ask questions about the past, the present and the future.

We are artists who show our creativity and talents with flair and imagination.

We are storytellers who have a passion for reading and are able to communicate in many ways.

We are problem solvers who tackle tasks with an open mind and a positive approach.

We are team players who work together to achieve our goals.

We are explorers who learn new skills, embrace other cultures and value our locality and the wider world.

We **Believe**. We **Succeed**. We **Soar**.

Our Gospel Virtues

To achieve our full Christian potential, we all need to live out our Gospel Virtues: -

Love

A Christ-like love respects the talent of each person in our school.

Faith

Faith helps us to do God's will in this world.

Hope

Hope helps us to see a new life beyond our present one.

Peace

We know that if we love one another, peace will be all around us.

Mercy

We believe that mercy will be shown by the way we forgive others.

Community

We believe our community here unites us all as followers of Jesus.

Curriculum Intent General Principles:

Below, the General Principles of our whole school curriculum intention are in black print, along with what this translates to as regards Mathematics in red:

The **General Principles** of our curriculum are that children:

- Meet Jesus through all aspects of their work. It is our intention that the children will encounter Jesus through elements of their Maths work. Children are encouraged to demonstrate the Gospel Virtues (love, faith, hope, peace, mercy & community) within Maths whilst believing, succeeding and soaring in their learning.
- Experience the challenge and enjoyment of learning. Our children are encouraged to become fluent in the fundamentals of mathematics, reason mathematically by following a line of enquiry and solve problems by applying their mathematics to a variety of routine and non-routine problems. As you walk around our school and talk to our children, you will see them enjoying learning experiences that demonstrate the love our children have for Mathematics. Our Maths lessons follow a very practical-based approach because we have adopted Teaching for Mastery across the whole school. This is underpinned by the NCETM's 5 Big Ideas¹, which includes representation and structure, mathematical thinking, variation, fluency and coherence. Children thrive on the challenge that Maths presents them, both within lessons and outside of the classroom in real-life contexts. They tackle diving, deeper and deepest activities, which provides a personalised approach to their learning. The Concrete Pictorial Abstract (CPA) approach is used when teaching children key mathematical skills and this helps to support children's mathematical understanding. As a result, the teaching of Maths takes on a very visual, auditory and hugely kinaesthetic approach to learning (VAK) ensuring that it is accessible to all learners.
- Learn within a coherent and progressive framework. As a school, in conjunction with the Mastery approach to our curriculum, which is taught from EYFS through to Year 6, we use the White Rose Maths Schemes of Learning. This is a starting point in order to develop a coherent and comprehensive conceptual pathway with the focus on the whole class advancing together. It is a progressive framework that provides opportunities for each mathematical concept to be taught in small, connected steps, building on from what pupils already know. The journey begins in EYFS, where children explore mathematical concepts through active exploration and their everyday play-based learning. It is achievable for all – we have high expectations and encourage a positive 'can do' mindset towards Mathematics in all pupils, creating learning experiences which develop children's resilience in the face of a challenge and carefully scaffolding learning so everyone can make progress.
- See clear links between different aspects of their learning. Mathematics is an interconnected subject in which the children need to be able to move fluently between representations of mathematical ideas and make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. Therefore, Maths is not a stand-alone subject and is used, applied and developed through activities in other areas of the curriculum, where appropriate, for example in History (chronology and counting systems), Geography (directions, distances and time zones), English (speaking and listening), Science (STEM approach), PE (statistics and measurements), Music (timing and beat counting), Computing (coding instructions and calculators), Art (shape and patterns), Design Technology (baking, cooking and measurements) and MFL (vocabulary based) as well as a child's outdoor learning in the WOW area.
- Understand the purpose and value of their learning and see its relevance to their past, present and future. We aim to equip our pupils with the knowledge, skills and understanding to apply what they have learnt in the past to the present and the future. Children are encouraged to make connections between the history of our counting system (past) and its evolution to the present day. They also consider the future of Mathematics and how it might develop in the years to come. Mathematics in the early years provides children with a solid foundation that will enable them to develop skills as they progress through their schooling and ensures children are ready for the National Curriculum across all key stages both within primary and secondary education. Mathematical concepts, are revisited, built upon and further developed. All units of work are carefully planned so that all of our children have the relevant opportunities to apply the principles of Rosenshine.
- Explore the breadth and depth of the national curriculum. The intention is that the learning goes beyond that of the National Curriculum and that areas of learning are more clearly defined. It is intended that when children leave St Mary's Catholic Voluntary Academy, they will be able to continue to develop their competence in a broad range of mathematical concepts. They will be engaged and prepared to continue mathematical learning at secondary school and beyond.

¹ This document has been created using content provided by the NCETM/Maths Hub Mastery Specialist Programme.

Curriculum Intent: MATHEMATICS (2022-23)

EYFS MATHEMATICS

ADVENT 1
Children will...

ADVENT 2
Children will...

LENT 1
Children will...

LENT 2
Children will...

PENTECOST 1
Children will...

PENTECOST 2
Children will...

See separate EYFS planning.

**Year 1
MATHEMATICS**

ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p>Number: Place Value (within 10) [5 weeks] Step 1: Sort objects Step 2: Count objects Step 3: Count objects from a larger group Step 4: Represent objects Step 5: Recognise numbers as words Step 6: Count on from any number Step 7: 1 more Step 8: Count backwards within 20 Step 9: 1 less Step 10: Compare groups by matching Step 11: Fewer, more, same Step 12: Less than, greater than, equal to Step 13: Compare numbers Step 14: Order objects and numbers Step 15: The number line</p> <p>Number: Addition and Subtraction (within 10) [1 week]</p>	<p>Number: Addition and Subtraction (within 10) [4 weeks] Step 4: Fact families – addition facts Step 5: Number bonds within 10 Step 6: Systematic number bonds within 10] Step 7: Number bonds to 10 Step 8: Addition – add together Step 9: Addition – add more Step 10: Addition problems Step 11: Find a part Step 12: Subtraction – find a part Step 13: Fact families – the eight facts Step 14: Subtraction – take away/ cross out (How many left?) Step 15: Subtraction – take away (How many left?) Step 16: Subtraction on a number line Step 17: Add or subtract 1 or 2</p>	<p>Number: Place Value (within 20) [3 weeks] Step 1: Count within 20 Step 2: Understand 10 Step 3: Understand 11, 12 and 13 Step 4: Understand 14, 15 and 16 Step 5: Understand 17, 18 and 19 Step 6: Understand 20 Step 7: 1 more and 1 less Step 8: The number line to 20 Step 9: Use a number line to 20 Step 10: Estimate on a number line to 20 Step 11: Compare numbers to 20 Step 12: Order numbers to 20</p> <p>Number: Addition and Subtraction (within 20) [3 weeks] Step 1: Add by counting on within 20 Step 2: Add ones using number bonds Step 3: Find and make number bonds to 20</p>	<p>Number: Place Value (within 50) [2 weeks] Step 1: Count from 20 to 50 Step 2: 20, 30, 40 and 50 Step 3: Count by making groups of tens Step 4: Groups of tens and ones Step 5: Partition into tens and ones Step 6: The number line to 50 Step 7: Estimate on a number line to 50 Step 8: 1 more, 1 less</p> <p>Measurement: Length and Height [2 weeks] Step 1: Compare lengths and heights Step 2: Measure length using objects Step 3: Measure length in centimetres</p> <p>Measurement: Mass and Volume [2 weeks] Step 1: Heavier and lighter Step 2: Measure mass Step 3: Compare mass</p>	<p>Number: Multiplication and Division [3 weeks] Step 1: Count in 2s Step 2: Count in 10s Step 3: Count in 5s Step 4: Recognise equal groups Step 5: Add equal groups Step 6: Make arrays Step 7: Make doubles Step 8: Make equal groups - grouping Step 9: Make equal groups - sharing</p> <p>Number: Fractions [2 weeks] Step 1: Recognise a half of an object or a shape Step 2: Find a half of an object or a shape Step 3: Recognise a half of a quantity Step 4: Find a half of a quantity Step 5: Recognise a quarter of an object or a shape</p>	<p>Number: Place Value (within 100) [2 weeks] Step 1: Count from 50 to 100 Step 2: Tens to 100 Step 3: Partition into tens and ones Step 4: The number line to 100 Step 5: 1 more, 1 less Step 6: Compare numbers with the same number of tens Step 7: Compare any two numbers</p> <p>Measurement: Money [1 week] Step 1: Unitising Step 2: Recognise coins Step 3: Recognise notes Step 4: Count in coins</p> <p>Measurement: Time [2 weeks] Step 1: Before and after Step 2: Days of the week Step 3: Months of the year</p>

<p>Step 1: Introduce parts and wholes Step 2: Part-whole model Step 3: Write number sentences</p>	<p>Geometry: Shape [1 week] Step 1: Recognise and name 3-D shapes Step 2: Sort 3-D shapes Step 3: Recognise and name 2-D shapes Step 4: Sort 2-D shapes Step 5: Patterns with 2-D and 3-D shapes</p> <p>Consolidation and Assessment [1 week]</p>	<p>Step 4: Doubles Step 5: Near doubles Step 6: Subtract ones using number bonds Step 7: Subtraction – counting back Step 8: Subtraction – finding the difference Step 9: Related facts Step 10: Missing number problems</p>	<p>Step 4: Full and empty Step 5: Compare volume Step 6: Measure capacity Step 7: Compare capacity</p>	<p>Step 6: Find a quarter of an object or a shape Step 7: Recognise a quarter of a quantity Step 8: Find a quarter of a quantity</p> <p>Geometry: Position and Direction [1 week] Step 1: Describe turns Step 2: Describe position – left and right Step 3: Describe position – forwards and backwards Step 4: Describe position – above and below Step 5: Ordinal numbers</p>	<p>Step 4: Hours, minutes and seconds Step 5: Tell the time to the hour Step 6: Tell the time to the half hour</p> <p>Consolidation and Assessment [1 week]</p>
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YEAR 1 VOCABULARY

<p>Number: Place Value (within 10) One, two, three, four, five, six, seven, eight, nine, ten, one more, one less, first (1st), second (2nd), third (3rd), fourth (4th), equals, less than, greater than, most, fewest</p>	<p>Number: Addition and Subtraction (within 10) One, two, three, four, five, six, seven, eight, nine, ten, add, subtract, equals, count on, count back, number bond</p>	<p>Number: Place Value (within 20) One, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, least, smallest, most, greatest, first, second, third, one more, one less</p>	<p>Number: Place Value (within 50) Tens, ones, one more, one less, less than, equal to, more than</p>	<p>Number: Multiplication and Division Count, equal groups, array, double, group equally, share equally</p>	<p>Number: Place Value (within 100) Tens, ones, one more, one less, smallest, greatest, less than, equal to, more than</p>
<p>Number: Addition and Subtraction (within 10)</p>	<p>Geometry: Shape Side, corner, vertices, vertex, curved, face,</p>	<p>Number: Addition and Subtraction (within 20)</p>	<p>Measurement: Length and Height</p>	<p>Number: Fractions Half, equal parts, whole, quarter</p>	<p>Measurement: Money Coin, note, pound, pence, penny</p>

One, two, three, four, five, six, seven, eight, nine, ten, add, subtract, equals, count on, count back, number bond	straight, 2D, 3D, pattern, square, circle, rectangle, triangle, cube, cuboid, sphere, cylinder, cone	One, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty, number bond, first, then, now, partition, add, subtract, equals	Taller, shorter, longer, tallest, shortest, longest, same, scale, length, height		
			Measurement: Mass and Volume Weight, mass, scales, heavier, lighter, balanced, capacity, volume, liquid, amount, empty, nearly empty, half full, nearly full, full	Geometry: Position and Direction Quarter turn, half turn, three-quarter turn, full turn, left, right, front, behind, below, above, top, middle, bottom, between, forwards, backwards,	Measurement: Time First, next, finally, before, after, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, sundae, January, February, March, April, May, June, July, August, September, October, November, December

**Year 2
MATHEMATICS**

ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p>Number: Place Value [4 weeks] Step 1: Numbers to 20 Step 2: Count objects to 100 by making 10s Step 3: Recognise tens and ones Step 4: Use a place value chart Step 5: Partition numbers to 100 Step 6: Write numbers to 100 in words Step 7: Flexibly partition numbers to 100 Step 8: Write numbers to 100 in expanded form Step 9: 10s on the number line to 100 Step 10: 10s and 1s on the number line to 100 Step 11: Estimate numbers on a number line Step 12: Compare objects Step 13: Compare numbers Step 14: Order objects and numbers Step 15: Count in 2s, 5s and 10s</p>	<p>Number: Addition and Subtraction [3 weeks] Step 9: Add across a 10 Step 10: Subtract across 10 Step 11: Subtract from a 10 Step 12: Subtract a 1-digit number from a 2-digit number (across a 10) Step 13: 10 more, 10 less Step 14: Add and subtract 10s Step 15: Add two 2-digit numbers (not across a 10) Step 16: Add two 2-digit numbers Add two 2-digit numbers (across a 10) Step 17: Subtract two 2-digit numbers (not across 10) Step 18: Subtract two 2-digit numbers (across a 10) Step 19: Mixed addition and subtraction Step 20: Compare number sentences</p>	<p>Measurement: Money [2 weeks] Step 1: Count money – pence Step 2: Count money – pounds (notes and coins) Step 3: Count money – pounds and pence Step 4: Choose notes and coins Step 5: Make the same amount Step 6: Compare amounts of money Step 7: Calculate with money Step 8: Make a pound Step 9: Find a change Step 10: Two-step problems</p> <p>Number: Multiplication and Division [4 weeks] Step 1: Recognise equal groups Step 2: Make equal groups Step 3: Add equal groups Step 4: Introduce the multiplication symbol</p>	<p>Number: Multiplication and Division [1 week] Step 15: The 5 times-table Step 16: Divide by 5 Step 17: The 5 and 10 times-tables</p> <p>Measurement: Length and Height [2 weeks] Step 1: Measure in centimetres Step 2: Measure in metres Step 3: Compare lengths and heights Step 4: Order lengths and heights Step 5: Four operations with lengths and heights</p> <p>Measurement: Mass, Capacity and Temperature [3 weeks] Step 1: Compare mass Step 2: Measure in grams Step 3: Measure in kilograms</p>	<p>Number: Fractions [3 weeks] Step 1: Introduction parts and wholes Step 2: Equal and unequal parts Step 3: Recognise a half Step 4: Find a half Step 5: Recognise a quarter Step 6: Find a quarter Step 7: Recognise a third Step 8: Find a third Step 9: Find the whole Step 10: Unit fractions Step 11: Non-unit fractions Step 12: Recognise the equivalence of a half and two quarters Step 13: Recognise three quarters Step 14: Find three quarters Step 15: Count in fractions up to a whole</p> <p>Measurement: Time [3 weeks] Step 1: O'clock and half past</p>	<p>Statistics [2 weeks] Step 1: Make tally charts Step 2: Tables Step 3: Block diagrams Step 4: Draw pictograms (1-1) Step 5: Interpret pictograms (1-1) Step 6: Draw pictograms (2, 5 and 10) Step 7: Interpret pictograms (2, 5 and 10)</p> <p>Geometry: Position and Direction [2 weeks] Step 1: Language of position Step 2: Describe movement Step 3: Describe turns Step 4: Describe movement and turns Step 5: Shape patterns with turns</p> <p>Consolidation and Assessment [2 weeks]</p>

<p>Step 16: Count in 3s</p> <p>Number: Addition and Subtraction [2 weeks] Step 1: Bonds to 10 Step 2: Fact families – addition and subtraction bonds within 20 Step 3: Related facts Step 4: Bonds to 100 (tens) Step 5: Add and subtract 1s Step 6: Add by making 10 Step 7: Add three 1-digit numbers Step 8: Add to the next 10</p>	<p>Step 21: Missing number problems</p> <p>Geometry: Properties of Shape [3 weeks] Step 1: Recognise 2-D and 3-D shapes Step 2: Count sides on 2-D shapes Step 3: Count vertices on 2-D shapes Step 4: Draw 2-D shapes Step 5: Lines of symmetry on shapes Step 6: Use lines of symmetry to complete shapes Step 7: Sort 2-D shapes Step 8: Count faces on 3-D shapes Step 9: Count edges on 3-D shapes Step 10: Count vertices on 3-D shapes Step 11: Sort 3-D shapes Step 12: Make patterns with 2-D and 3-D shapes</p>	<p>Step 5: Multiplication sentences Step 6: Use arrays Step 7: Make equal groups – grouping Step 8: Make equal groups – sharing Step 9: The 2 times-table Step 10: Divide by 2 Step 11: Doubling and halving Step 12: Odd and even numbers Step 13: The 10 times-table Step 14: Divide by 10</p>	<p>Step 4: Four operations with mass Step 5: Compare volume and capacity Step 6: Measure in millilitres Step 7: Measure in litres Step 8: Four operations with volume and capacity Step 9: Temperature</p>	<p>Step 2: Quarter past and quarter to Step 3: Tell time past the hour Step 4: Tell time to the hour Step 5: Tell the time to 5 minutes Step 6: Minutes in an hour Step 7: Hours in a day</p>	
YEAR 2 VOCABULARY					
<p>Number: Place Value Hundreds, tens, ones, zero, place value, greater than, less than, order, partition, digit</p>	<p>Geometry: Properties of Shape Two-dimensional (2D), three-dimensional (3D), flat, solid, corner, apex, vertex, vertices, side,</p>	<p>Measurement: Money Pence, pound, coin, note, total, amount, change, difference, price, cost, pay, owe</p>	<p>Measurement: Length and Height Length, long, short, height, tall, measure, ruler, tape measure, metre stick, centimetre</p>	<p>Number: Fractions Fraction, part, whole, equal, share, half, quarter, third, equivalent, numerator, denominator</p>	<p>Statistics Data, interpret, key, tally chart, pictogram, block diagram, table, total, compare, symbol</p>

	edge, face, curved, straight, round, line of symmetry, vertical, pattern, pentagon, hexagon, quadrilateral, triangular prism, square-based pyramid		(cm), metre (m), compare, order		
Number: Addition and Subtraction Add, total, make, plus, sum, more, altogether, difference, leave, subtract, difference between, less, minus, take away, mentally, orally, column addition, column subtraction, estimate, inverse operation, solve problems, number facts	Number: Multiplication and Division Groups, equal groups, lots of, arrays, repeated addition, multiplication, times tables	Measurement: Mass, Capacity and Temperature Mass, gram, kilogram, lighter, heavier, capacity, volume, millilitre, litre, temperature, Celsius, degrees	Measurement: Time Time, clock, hours, minutes, hand, o'clock, half past, quarter past, quarter to, five minutes, duration, shorter, longer	Geometry: Position and Direction Forwards, backwards, left, right, north, south, east, west, quarter turn, half turn, three-quarter turn, clockwise, anticlockwise, pattern, sequence	

**Year 3
MATHEMATICS**

ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p>Number: Place Value [3 weeks] Step 1: Represent numbers to 100 Step 2: Partition numbers to 100 Step 3: Number line to 100 Step 4: Hundreds Step 5: Represent numbers to 1,000 Step 6: Partition numbers to 1,000 Step 7: Flexible partitioning of numbers to 1,000 Step 8: Hundreds, tens and ones Step 9: Find 1, 10 or 100 more or less Step 10: Number line to 1,000 Step 11: Estimate on a number line to 1,000 Step 12: Compare numbers to 1,000 Step 13: Order numbers to 1,000 Step 14: Count in 50s</p> <p>Number: Addition and Subtraction [3 weeks]</p>	<p>Number: Addition and Subtraction [2 weeks] Step 10: Make connections Step 11: Add two numbers (no exchange) Step 12: Subtract two numbers (no exchange) Step 13: Add two numbers (across a 10) Step 14: Add two numbers (across a 100) Step 15: Subtract two numbers (across a 10) Step 16: Subtract two numbers (across a 100) Step 17: Add 2-digit and 3-digit numbers Step 18: Subtract a 2-digit number from a 3-digit number Step 19: Complements to 100 Step 20: Estimate answers Step 21: Inverse operations Step 22: Make decisions</p> <p>Number: Multiplication and Division A [4 weeks]</p>	<p>Number: Multiplication and Division B [3 weeks] Step 1: Multiples of 10 Step 2: Related calculations Step 3: Reasoning about multiplication Step 4: Multiply a 2-digit by 1-digit number – with exchange Step 5: Multiply a 2-digit number by a 1-digit number – with exchange Step 6: Link multiplication and division Step 7: Divide a 2-digit number by a 1-digit number – no exchange Step 8: Divide a 2-digit number by a 1-digit number – flexible partitioning Step 9: Divide a 2-digit number by a 1-digit number – with remainders Step 10: Scaling Step 11: How many ways?</p>	<p>Number: Fractions A [3 weeks] Step 1: Understand the denominators of unit fractions Step 2: Compare and order unit fractions Step 3: Understand the numerators of non-unit fractions Step 4: Understand the whole Step 5: Compare and order non-unit fractions Step 6: Fractions on a number line Step 7: Fractions on a number line Step 8: Count in fractions on a number line Step 9: Equivalent fractions on a number line Step 10: Equivalent fractions as bar models</p> <p>Measurement: Mass and Capacity [3 weeks] Step 1: Use scales Step 2: Measure mass in grams</p>	<p>Number: Fractions B [2 weeks] Step 1: Add fractions Step 2: Subtract fractions Step 3: Partition the whole Step 4: Unit fractions of a set of objects Step 5: Non-unit fractions of a set of objects Step 6: Reasoning with fractions of an amount</p> <p>Measurement: Money [2 weeks] Step 1: Pounds and pence Step 2: Convert pounds and pence Step 3: Add money Step 4: Subtract money Step 5: Find change</p> <p>Measurement: Time [2 weeks] Step 1: Roman numbers to 12 Step 2: Tell the time to 5 minutes Step 3: Tell the time to the minute</p>	<p>Measurement: Time [1 week] Step 9: Hours and minutes – use durations Step 10: Minutes and seconds Step 11: Units of time Step 12: Solve problems with time</p> <p>Geometry: Shape [2 weeks] Step 1: Turns and angles Step 2: Right angles Step 3: Compare angles Step 4: Measure and draw accurately Step 5: Horizontal and vertical Step 6: Parallel and perpendicular Step 7: Recognise and describe 2-D shapes Step 8: Draw polygons Step 9: Recognise and describe 3-D shapes Step 10: Make 3-D shapes</p> <p>Statistics [2 weeks]</p>

<p>Step 1: Apply number bonds within 10</p> <p>Step 2: Add and subtract 1s</p> <p>Step 3: Add and subtract 10s</p> <p>Step 4: Add and subtract 100s</p> <p>Step 5: Spot the pattern</p> <p>Step 6: Add 1s across a 10</p> <p>Step 7: Add 10s across a 100</p> <p>Step 8: Subtract 1s across a 10</p> <p>Step 9: Subtract 10s across a 100</p>	<p>Step 1: Multiplication – equal groups</p> <p>Step 2: Use arrays</p> <p>Step 3: Multiples of 2</p> <p>Step 4: Multiples of 5 and 10</p> <p>Step 5: Sharing and grouping</p> <p>Step 6: Multiply by 3</p> <p>Step 7: Divide by 3</p> <p>Step 8: The 3 times-table</p> <p>Step 9: Multiply by 4</p> <p>Step 10: Divide by 4</p> <p>Step 11: The 4 times-table</p> <p>Step 12: Multiply by 8</p> <p>Step 13: Divide by 8</p> <p>Step 14: The 8 times-tables</p> <p>Step 15: The 2, 4 and 8 times-tables</p>	<p>Measurement: Length and Perimeter [3 weeks]</p> <p>Step 1: Measure in metres and centimetres</p> <p>Step 2: Measure in millimetres</p> <p>Step 3: Measure in centimetres and millimetres</p> <p>Step 4: Metres, centimetres and millimetres</p> <p>Step 5: Equivalent lengths (metres and centimetres)</p> <p>Step 6: Equivalent lengths (centimetres and millimetres)</p> <p>Step 7: Compare lengths</p> <p>Step 8: Add lengths</p> <p>Step 9: Subtract lengths</p> <p>Step 10: What is perimeter?</p> <p>Step 11: Measure perimeter</p> <p>Step 12: Calculate perimeter</p>	<p>Step 3: Measure mass in kilograms and grams</p> <p>Step 4: Equivalent masses (kilograms and grams)</p> <p>Step 5: Compare mass</p> <p>Step 6: Add and subtract mass</p> <p>Step 7: Measure capacity and volume in millimetres</p> <p>Step 8: Measure capacity and volume in litres and millilitres</p> <p>Step 9: Equivalent capacities and volumes (litres and millilitres)</p> <p>Step 10: Compare capacity and volume</p> <p>Step 11: Add and subtract capacity and volume</p>	<p>Step 4: Read time on a digital clock</p> <p>Step 5: Use a.m. and p.m.</p> <p>Step 6: Years, months and days</p> <p>Step 7: Days and hours</p> <p>Step 8: Hours and minutes – use start and end times</p>	<p>Step 1: Interpret pictograms</p> <p>Step 2: Draw pictograms</p> <p>Step 3: Interpret bar charts</p> <p>Step 4: Draw bar charts</p> <p>Step 5: Collect and represent data</p> <p>Step 6: Two-way tables</p> <p>Consolidation and Assessment [1 week]</p>
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YEAR 3 VOCABULARY

<p>Number: Place Value</p> <p>Hundreds, tens, ones, zero, greater than, less than, order, more, less, partition, digit</p>	<p>Number: Addition and Subtraction</p> <p>Add, total, plus, sum, more, altogether, difference, subtract, less, minus, take away, column addition,</p>	<p>Number: Multiplication and Division</p> <p>Times tables, multiply by, divide by, array, fact families, regrouping</p>	<p>Number: Fractions</p> <p>Numerator, denominator, unit fraction, non-unit fraction, equivalent, halves, thirds, quarters,</p>	<p>Number: Fractions</p> <p>Numerator, denominator, unit fraction, non-unit fraction, equivalent, halves, thirds, quarters,</p>	<p>Measurement: Time</p> <p>12-hour time, 24-hour time, roman numerals, analogue, digital, hours, minutes, seconds, o'clock, half past,</p>
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	column subtraction, exchange, estimate, inverse operation, solve problems, number facts, place value		fifths, sixths, eighths, tenths, decimal tenths	fifths, sixths, eighths, tenths, decimal tenths	quarter past, quarter to, midday, midnight, noon
Number: Addition and Subtraction Add, total, plus, sum, more, altogether, difference, subtract, less, minus, take away, column addition, column subtraction, exchange, estimate, inverse operation, solve problems, number facts, place value	Number: Multiplication and Division Times tables, multiply by, divide by, array, fact families, regrouping	Measurement: Perimeter Metre (m), centimetre (cm), millimetre (mm), height, length, width, perimeter, further, furthest, higher, highest, longer, longest, shorter, shortest, taller, tallest	Measurement: Mass and Capacity Mass, gram, kilogram, capacity, volume, millilitre, litre, lighter, heavier	Measurement: Money Amount, change, coin, combinations, convert, note, pence, penny, pounds, value	Geometry: Shape Quarter turn, half turn, three-quarter turn, angle, right angle, acute, obtuse, horizontal, vertical, parallel, perpendicular, polygon, two-dimensional, three-dimensional, flat face, curved surface, edge, curved edge, vertex, vertices, apex, heptagon, octagon, tetrahedron
				Measurement: Time 12-hour time, 24-hour time, roman numerals, analogue, digital, hours, minutes, seconds, o'clock, half past, quarter past, quarter to, midday, midnight, noon	Statistics Data, pictogram, symbol, bar chart, horizontal axis, vertical axis, axes, scale, intervals, table, interpret

**Year 4
MATHEMATICS**

ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p>Number: Place Value [4 weeks] Step 1: Represent numbers to 1,000 Step 2: Partition numbers to 1,000 Step 3: Number line to 1,000 Step 4: Thousands Step 5: Represent numbers to 10,000 Step 6: Partition numbers to 10,000 Step 7: Flexible partitioning of numbers to 10,000 Step 8: Find 1, 10, 100, 1,000 more or less Step 9: Number line to 10,000 Step 10: Estimate on a number line to 10,000 Step 11: Compare numbers to 10,000 Step 12: Order numbers to 10,000 Step 13: Roman numerals Step 14: Round to the nearest 10 Step 15: Round to the nearest 1000</p>	<p>Number: Addition and Subtraction [1 week] Step 8: Efficient subtraction Step 9: Estimate answers Step 10: Checking strategies</p> <p>Measurement: Area [1 week] Step 1: What is area? Step 2: Count squares Step 3: Make shapes Step 4: Compare areas</p> <p>Number: Multiplication and Division A [3 weeks] Step 1: Multiples of 3 Step 2: Multiply and divide by 6 Step 3: 6 times-table and division facts Step 4: Multiply and divide by 9 Step 5: 9 times-table and division facts Step 6: The 3, 6 and 9 times-tables Step 7: Multiply and divide by 7</p>	<p>Number: Multiplication and Division B [3 weeks] Step 1: Factor pairs Step 2: Use factor pairs Step 3: Multiply by 10 Step 4: Multiply by 100 Step 5: Divide by 10 Step 6: Divide by 100 Step 7: Related facts – multiplication and division Step 8: Informal written methods for multiplication Step 9: Multiply a 2-digit number by a 1-digit number Step 10: Multiply a 3-digit number by a 1-digit number Step 11: Divide a 2-digit number by a 1-digit number (1) Step 12: Divide a 2-digit number by a 1-digit number (2) Step 13: Divide a 3-digit number by a 1-digit number Step 14: Correspondence problems</p>	<p>Number: Fractions [3 weeks] Step 5: Compare and order mixed numbers Step 6: Understand improper fractions Step 7: Convert mixed numbers to improper fractions Step 8: Convert improper fractions to mixed numbers Step 9: Equivalent fractions on a number line Step 10: Equivalent fraction families Step 11: Add two or more fractions Step 12: Add fractions and mixed numbers Step 13: Subtract two fractions Step 14: Subtract from whole amounts Step 15: Subtract from mixed numbers</p> <p>Number: Decimals [3 weeks] Step 1: Tenths as fractions</p>	<p>Number: Decimals B [2 weeks] Step 1: Make a whole with tenths Step 2: Make a whole with hundredths Step 3: Partition decimals Step 4: Flexibly partition decimals Step 5: Compare decimals Step 6: Order decimals Step 7: Round to the nearest whole number Step 8: Halves and quarters as decimals</p> <p>Measurement: Money [2 weeks] Step 1: Write money using decimals Step 2: Convert between pounds and pence Step 3: Compare amounts of money Step 4: Estimate with money Step 5: Calculate with money Step 6: Solve problems with money</p>	<p>Consolidation and Assessment [1 week]</p> <p>Geometry: Shape [2 weeks] Step 1: Understand angles as turns Step 2: Identify angles Step 3: Compare and order angles Step 4: Triangles Step 5: Quadrilaterals Step 6: Polygons Step 7: Lines of symmetry Step 8: Complete a symmetric figure</p> <p>Statistics [1 week] Step 1: Interpret charts Step 2: Comparison, sum and difference Step 3: Interpret line graphs Step 4: Draw line graphs</p> <p>Geometry: Position and Direction [2 weeks] Step 1: Describe position using coordinates</p>

<p>Step 16: Round to the nearest 1,000 Step 17: Round to the nearest 10, 100 or 1,000</p> <p>Number: Addition and Subtraction [2 weeks] Step 1: Add and subtract 1s, 10s, 100s and 1,000s Step 2: Add up to two 4-digit numbers – no exchange Step 3: Add two 4-digit numbers – one exchange Step 4: Add two 4-digit numbers – more than one exchange Step 5: Subtract two 4-digit numbers – no exchange Step 6: Subtract two 4-digit numbers – one exchange Step 7: Subtract two 4-digit numbers – more than one exchange</p>	<p>Step 8: 7 times-table and division facts Step 9: 11 times-table and division facts Step 10: 12 times-table and division facts Step 11: Multiply by 1 and 0 Step 12: Divide a number by 1 and itself Step 13: Multiply three numbers</p> <p>Consolidation and Assessment [1 week]</p>	<p>Step 15: Efficient multiplication</p> <p>Measurement: Length and Perimeter [2 weeks] Step 1: Measure in kilometres and metres Step 2: Equivalent lengths (kilometres and metres) Step 3: Perimeter on a grid Step 4: Perimeter of a rectangle Step 5: Perimeter of rectilinear shapes Step 6: Find missing lengths in rectilinear shapes Step 7: Calculate the perimeter of rectilinear shapes Step 8: Perimeter of regular polygons Step 9: Perimeter of polygons</p> <p>Number: Fractions [1 week] Step 1: Understand the whole Step 2: Count beyond 1 Step 3: partition a mixed number Step 4: Number lines with mixed numbers</p>	<p>Step 2: Tenths as decimals Step 3: Tenths on a place value chart Step 4: Tenths on a number line Step 5: Decide a 1-digit number by 10 Step 6: Divide a 2-digit number by 10 Step 7: Hundredths as fractions Step 8: Hundredths as decimals Step 9: Hundredths n a place value chart Step 10: Divide a 1- or 2-digit number by 100</p>	<p>Measurement: Time [2 weeks] Step 1: Years, months, weeks and days Step 2: Hours, minutes and seconds Step 3: Convert between analogue and digital times Step 4: Convert to the 24 hour clock Step 5: Convert from the 24 hour clock</p>	<p>Step 2: Plot coordinates Step 3: Draw 2-D shapes on a grid Step 4: Translate on a grid Step 5: Describe translation on a grid</p>
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YEAR 4 VOCABULARY

<p>Number: Place Value Thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded to, negative number, partition, digit, roman numeral</p>	<p>Measurement: Area Kilometres, metres, centimetres, millimetres, squares, space, length, width, rectilinear</p>	<p>Number: Multiplication and Division Multiply, groups of, lots of, times, divide, share, remainder, factor, multiple, product, short multiplication, short division</p>	<p>Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, equivalent, quantities, whole, halves, thirds, quarters, fifths, sixths, sevenths, eighths, ninths, tenths, elevenths, twelfths</p>	<p>Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point, place value</p>	<p>Geometry: Shape Angle, right angle, acute, obtuse, horizontal, vertical, diagonal, parallel, perpendicular, two-dimensional, polygon, line of symmetry, reflection, mirror line, isosceles, equilateral, scalene, quadrilateral, rhombus, parallelogram, trapezium</p>
<p>Number: Addition and Subtraction Add, total, plus, sum, more, altogether, difference, subtract, less, minus, take away, mentally, orally, column addition, column subtraction, exchange, estimate, inverse operation, solve problems</p>	<p>Number: Multiplication and Division Multiply, groups of, lots of, times, divide, share, remainder, factor, multiple, product, short multiplication, short division</p>	<p>Measurement: Length and Perimeter Kilometres, metres, centimetres, millimetres, distance, length, width, rectilinear, right angle</p>	<p>Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point, place value</p>	<p>Measurement: Money Amount, change, combinations, estimate, decimal, pence, penny, pounds, round, value, convert</p>	<p>Statistics Bar chart, pictogram, frequency table, tally chart, discrete data, continuous data, time graph, sum, difference, comparison, interpret</p>
		<p>Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, equivalent, quantities, whole, halves, thirds, quarters, fifths, sixths, sevenths, eighths, ninths, tenths, elevenths, twelfths</p>		<p>Measurement: Time 12-hour time, 24-hour time, roman numerals, analogue, digital, hours, minutes, seconds, o'clock, half past, quarter past, quarter to, midday, midnight, noon, a.m., p.m.</p>	<p>Geometry: Position and Direction Coordinate, quadrant, x-axis, y-axis, translation, vertex, vertices</p>

**Year 5
MATHEMATICS**

ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p>Number: Place Value [3 weeks] Step 1: Roman numerals to 1,000 Step 2: Numbers to 10,000 Step 3: Numbers to 100,000 Step 4: Numbers to 1,000,000 Step 5: Read and write numbers to 1,000,000 Step 6: Powers of 10 Step 7: 10/ 100/ 1,000/ 10,000/ 100,000 more or less Step 8: Partition numbers to 1,000,000 Step 9: Number line to 1,000,000 Step 10: Compare and order numbers to 100,000 Step 11: Compare and order numbers to 1,000,000 Step 12: Round to the nearest 10, 100 or 1,000 Step 13: Round within 100,000 Step 14: Round within 1,000,000</p>	<p>Number: Multiplication and Division A [3 weeks] Step 4: Common factors Step 5: Prime numbers Step 6: Square numbers Step 7: Cube numbers Step 8: Multiply by 10, 100 and 1,000 Step 9: Divide by 10, 100 and 1,000 Step 10: Multiples of 10, 100 and 1,000</p> <p>Number: Fractions [3 weeks] Step 1: Find fractions equivalent to a unit fraction Step 2: Find fractions equivalent to a non-unit fraction Step 3: recognise equivalent fractions Step 4: Convert improper fractions to mixed numbers Step 5: Convert mixed numbers to improper fractions</p>	<p>Number: Multiplication and Division B [3 weeks] Step 1: Multiply up to a 4-digit number by a 1-digit number Step 2: Multiply a 2-digit number by a 2-digit number (area model) Step 3: Multiply a 2-digit number by a 2-digit number Step 4: Multiply a 3-digit number by a 2-digit number Step 5: Multiply a 4-digit number by a 2-digit number Step 6: Solve problems with multiplication Step 7: Short division Step 8: Divide a 4-digit number by a 1-digit number Step 9: Divide with remainders Step 10: Efficient division Step 11: Solve problems with multiplication and division</p>	<p>Number: Decimals and Percentages [2 weeks] Step 6: Thousandths as decimals Step 7: Thousandths on a place value chart Step 8: Order and compare decimals (same number of decimal places) Step 9: Order and compare any decimals with up to 3 decimal places Step 10: Round to the nearest whole number Step 11: Round to 1 decimal place Step 12: Understand percentages Step 13: Percentages as fractions Step 14: Percentages as decimals Step 15: Equivalent fractions, decimals and percentages</p> <p>Measurement: Perimeter and Area [2 weeks]</p>	<p>Geometry: Shape [3 weeks] Step 1: Understand and use degrees Step 2: Classify angles Step 3: Estimate angles Step 4: Measure angles up to 180 Step 5: Draw lines and angles accurately Step 6: Calculate angles around a point Step 7: Calculate angles on a straight line Step 8: Lengths and angles in shapes Step 9: Regular and irregular polygons Step 10: 3-D shapes</p> <p>Geometry: Position and Direction [2 weeks] Step 1: Read and plot coordinates Step 2: Problem solving with coordinates Step 3: Translation Step 4: Translation with coordinates Step 5: Lines of symmetry</p>	<p>Number: Decimals [2 weeks] Step 5: Subtract decimals with the same number of decimal places Step 6: Add decimals with different numbers of decimal places Step 7: Subtract decimals with different numbers of decimal places Step 8: Efficient strategies for adding and subtracting decimals Step 9: Decimal sequences Step 10: Multiply by 10, 100 and 1,000 Step 11: Divide by 10, 100 and 1,000 Step 12: Multiply and divide decimals – missing values</p> <p>Number: Negative Numbers [1 week] Step 1: Understand negative numbers Step 2: Count through zero in 1s</p>

<p>Number: Addition and Subtraction [2 weeks] Step 1: Mental strategies Step 2: Add whole numbers with more than four digits Step 3: Subtract whole numbers with more than four digits Step 4: Round to check answers Step 5: Inverse operations (addition and subtraction) Step 6: Multi-step addition and subtraction problems Step 7: Compare calculations Step 8: Find missing numbers</p> <p>Number: Multiplication and Division [1 week] Step 1: Multiples Step 2: Common multiples Step 3: Factors</p>	<p>Step 6: Compare fractions less than 1 Step 7: Order fractions less than 1 Step 8: Compare and order fractions greater than 1 Step 9: Add and subtract fractions with the same denominator Step 10: Add fractions within 1 Step 11: Add fractions with total greater than 1 Step 12: Add to a mixed number Step 13: Add two mixed numbers Step 14: Subtract fractions Step 15: Subtract from a mixed number Step 16: Subtract from a mixed number – breaking the whole Step 17: Subtract two mixed numbers</p>	<p>Number: Fractions [2 weeks] Step 1: Multiply a unit fraction by an integer Step 2: Multiply a non-unit fraction by an integer Step 3: Multiply a mixed number by an integer Step 4: Calculate a fraction of a quantity Step 5: Fraction of an amount Step 6: Find the whole Step 7: Use fractions as operators</p> <p>Number: Decimals and Percentages [1 week] Step 1: Decimals up to 2 decimal places Step 2: Equivalent fractions and decimals (tenths) Step 3: Equivalent fractions and decimals (hundredths) Step 4: Equivalent fractions and decimals Step 5: Thousandths as fractions</p>	<p>Step 1: Perimeter of rectangles Step 2: Perimeter of rectilinear shapes Step 3: Perimeter of polygons Step 4: Area of rectangles Step 5: Area of compound shapes Step 6: Estimate area</p> <p>Statistics [2 weeks] Step 1: Draw line graphs Step 2: Read and interpret line graphs Step 3: Read and interpret tables Step 4: Two-way tables Step 5: Read and interpret timetables</p>	<p>Step 6: Reflection in horizontal and vertical lines</p> <p>Number: Decimals [1 week] Step 1: Use known facts to add and subtract decimals within 1 Step 2: Complements to 1 Step 3: Add and subtract decimals across 1 Step 4: Add decimals with the same number of decimal places</p>	<p>Step 3: Count through zero in multiples Step 4: Compare and order negative numbers Step 5: Find the difference</p> <p>Measurement: Converting Units [2 weeks] Step 1: Kilograms and kilometres Step 2: Millimetres and millilitres Step 3: Convert units of length Step 4: Convert between metric and imperial units Step 5: Convert units of time Step 6: Calculate with timetables</p> <p>Measurement: Volume [1 week] Step 1: Cubic centimetres Step 2: Compare volume Step 3: Estimate volume Step 4: Estimate capacity</p>
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YEAR 5 VOCABULARY

<p>Number: Place Value Millions, thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded, negative number, partition, digit, interval, sequence, linear sequence</p>	<p>Number: Multiplication and Division Multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, squared, cubed, short multiplication, short division</p>	<p>Number: Multiplication and Division Multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, short multiplication, long multiplication, short division, short multiplication, short division</p>	<p>Number: Decimals and Percentages Decimal place, decimal fraction, equivalent fraction, tenth, sharing, partitioning, exchanging, hundredth, thousandth, equal to, remainder, grouping, per cent (%) = out of 100, equivalent fraction, equivalent decimal, convert, compare, order, the whole</p>	<p>Geometry: Shape Angle, right angle, acute, obtuse, reflex, protractor, horizontal, vertical, parallel, perpendicular, polygon, regular, irregular, two-dimensional, three-dimensional, flat face, curved surface, edge, curved edge, vertex, apex, net, pentagonal prism, hexagonal prism, octagonal prism, octahedron</p>	<p>Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point</p>
<p>Number: Addition and Subtraction Add, total, make, plus, sum, more, altogether, difference, subtract, less, minus, take away, column addition, column subtraction, estimate, inverse operation, number facts, complex</p>	<p>Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, whole, equivalent, mixed number, improper fraction, simplest form, multiple, common denominator, common numerator</p>	<p>Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, whole, equivalent, mixed number, improper fraction, simplest form, multiple, common denominator, common numerator</p>	<p>Measurement: Perimeter and Area Metre kilometre, length, width, rectangle, rectilinear, dimensions, Squared units (m²)</p>	<p>Geometry: Position and Direction Coordinate, quadrant, x-axis, y-axis, reflection, mirror line, translation, horizontal, vertical</p>	<p>Number: negative Numbers Negative number, positive, zero, minus, below, number line, sequence</p>
			<p>Statistics Axis, continuous data, horizontal, data, interpret, label, line graph, maximum value, minimum value, pattern, predict, relationship, represent, scale, survey, table, tally, timetable, vertical, x-axis, y-axis</p>	<p>Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point</p>	<p>Measurement: Volume Cubed, area, cross-section, prism, cube, cuboid, face, length, height, width, depth</p>
					<p>Measurement: Converting Units Mass, gram, kilogram, capacity, volume, millilitre, centilitre, litre, millimetre, centimetre, kilometre</p>

**Year 6
MATHEMATICS**

ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
<p>Number: Place Value [2 weeks] Step 1: Numbers to 1,000,000 Step 2: Numbers to 10,000,000 Step 3: Read and write numbers to 10,000,000 Step 4: Powers of 10 Step 5: Number line to 10,000,000 Step 6: Compare and order any integers Step 7: Round any integer Step 8: Negative numbers</p> <p>Number: Addition, Subtraction, Multiplication and Division [4 weeks] Step 1: Add and subtract integers Step 2: Common factors Step 3: Common multiples Step 4: Rules of divisibility Step 5: Primes to 100 Step 6: Square and cube numbers</p>	<p>Number: Addition, Subtraction, Multiplication and Division [1 week] Step 15: Order of operations Step 16: Mental calculations and estimation Step 17: Reason from known facts</p> <p>Number: Fractions A [2 weeks] Step 1: Equivalent fractions and simplifying Step 2: Equivalent fractions on a number line] Step 3: Compare and order (denominator) Step 4: Compare and order (numerator) Step 5: Add and subtract simple fractions Step 6: Add and subtract any two fractions Step 7: Add mixed numbers Step 8: Subtract mixed numbers</p>	<p>Number: Ratio [2 weeks] Step 1: Add or multiply? Step 2: Use ratio language Step 3: Introduction to the ratio symbol Step 4: Ratio and fractions Step 5: Scale drawing Step 6: Use scale factors Step 7: Similar shapes Step 8: Ratio problems Step 9: Proportion problems Step 10: Recipes</p> <p>Number: Algebra [2 weeks] Step 1: 1-step function machines Step 2: 2-step function machines Step 3: Form expressions Step 4: Substitution Step 5: Formulae Step 6: Form equations Step 7: Solve 1-step equations Step 8: Solve 2-step equations</p>	<p>Number: Fractions, Decimals and Percentages [2 weeks] Step 1: Decimal and fraction equivalents Step 2: Fractions as division Step 3: Understand percentages Step 4: Fractions to percentages Step 5: Equivalent fractions, decimals and percentages Step 6: Order fractions, decimals and percentages Step 7: Percentage of an amount – one step Step 8: Percentage of an amount – multi step Step 9: Percentages – missing values</p> <p>Measurement: Perimeter, Area and Volume [2 weeks] Step 1: Shapes – same area Step 2: Area and perimeter</p>	<p>Geometry: Shape [3 weeks] Step 1: Measure and classify angles Step 2: Calculate angles Step 3: Vertically opposite angles Step 4: Angles in a triangle Step 5: Angles in a triangle – special cases Step 6: Angles in a triangle – missing angles Step 7: Angles in a quadrilateral Step 8: Angles in a polygon Step 9: Circles Step 10: Draw shapes accurately Step 11: Nets of 3-D shapes</p> <p>Geometry: Position and Direction [1 week] Step 1: The first quadrant Step 2: Read and plot points in four quadrants Step 3: Solve problems with coordinates</p>	<p>Consolidation and Themed Projects [6 weeks]</p>

<p>Step 7: Multiply up to a 4-digit number by a 2-digit number</p> <p>Step 8: Solve problems with multiplication</p> <p>Step 9: Short division</p> <p>Step 10: Division using factors</p> <p>Step 11: Introduction to long division</p> <p>Step 12: Long division with remainders</p> <p>Step 13: Solve problems with division</p> <p>Step 14: Solve multi-step problems</p>	<p>Step 9: Multi-step problems</p> <p>Number: Fractions B [2 weeks]</p> <p>Step 1: Multiply fractions by integers</p> <p>Step 2: Multiply fractions by fractions</p> <p>Step 3: Divide a fraction by an integer</p> <p>Step 4: Divide any fraction by an integer</p> <p>Step 5: Mixed questions with fractions</p> <p>Step 6: Fraction of an amount</p> <p>Step 7: Fraction of an amount – find the whole</p> <p>Measurement: Converting Units [1 week]</p> <p>Step 1: Metric measures</p> <p>Step 2: Convert metric measures</p> <p>Step 3: Calculate with metric measures</p> <p>Step 4: Miles and kilometres</p> <p>Step 5: Imperial measures</p>	<p>Step 9: Find pairs of values</p> <p>Step 10: Solve problems with two unknowns</p> <p>Number: Decimals [2 weeks]</p> <p>Step 1: Place value within 1</p> <p>Step 2: Place value – integers and decimals</p> <p>Step 3: Round decimals</p> <p>Step 4: Add and subtract decimals</p> <p>Step 5: Multiply by 10, 100 and 1,000</p> <p>Step 6: Divide by 10, 100 and 1,000</p> <p>Step 7: Multiply decimals by integers</p> <p>Step 8: Divide decimals by integers</p> <p>Step 9: Multiply and divide decimals in context</p>	<p>Step 3: Area of a triangle – counting squares</p> <p>Step 4: Area of a right-angled triangle</p> <p>Step 5: Area of any triangle</p> <p>Step 6: Area of a parallelogram</p> <p>Step 7: Volume – counting cubes</p> <p>Step 8: Volume of a cuboid</p> <p>Statistics [2 weeks]</p> <p>Step 1: Line graphs</p> <p>Step 2: Dual bar charts]</p> <p>Step 3: Read and interpret pie charts</p> <p>Step 4: Pie charts with percentages</p> <p>Step 5: Draw pie charts</p> <p>Step 6: The mean</p>	<p>Step 4: Translations</p> <p>Step 5: Reflections</p> <p>Consolidation and Assessment [2 weeks]</p>	
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YEAR 6 VOCABULARY

<p>Number: Place Value Ten million, millions, thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded, negative number, partition, digit, interval, sequence, linear sequence</p>	<p>Number: Fractions Numerator, denominator, proper fraction, improper fraction, factor, highest common multiple, lowest common multiple, equivalents, common numerator, common denominator, decimal equivalent, simplify, simplest form, mixed number, whole number</p>	<p>Number: Ratio Proportion, for every __, there are __, part, whole, scale factor, enlargement, similar shapes, length, width, perimeter</p>	<p>Number: Percentages Per cent (%) = out of 100, discount, equivalent fraction, equivalent decimal, convert, compare, order, the whole</p>	<p>Geometry: Shape Angle, right angle, acute, obtuse, reflex, protractor, horizontal, vertical, parallel, perpendicular, polygon, regular, irregular, two-dimensional, three-dimensional, flat face, curved surface, edge, curved edge, vertex, vertices, apex, radius, diameter, circumference</p>
<p>Number: Addition, Subtraction, Multiplication and Division Add, total, make, plus, sum, more, altogether, difference, leave, subtract, difference between, less, minus, take away, mentally, orally, column addition, column subtraction, estimate, inverse operation, solve problem, number facts, complex, multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, squared, cubed, prime, short multiplication, long multiplication, short division, brackets, BODMAS</p>		<p>Number: Algebra Term to term rule, variable, unknown, expression, equation, formula, one-step equation, two-step equation, substitution, pair of unknowns, enumerate</p>	<p>Measurement: Perimeter, Area and Volume Squared units (m²), Cubic units (cm³), cuboid, width, length, rectangle, rectilinear, parallelogram, perpendicular height</p>	<p>Geometry: Position and Direction Translate, translation, reflect, reflection, up, down, right, left, coordinates, quadrant, x-axis, y-axis</p>
	<p>Measurement: Converting Units Mass, gram, kilogram, capacity, volume, millilitre, litre, millimetre, centimetre, metre, kilometre, foot, inch, ounce, pound, stone, pint, gallon</p>	<p>Number: Decimals Decimal place, decimal fraction, recurring decimal, equivalent fraction, tenth, sharing, partitioning, exchanging, rounding to 3d.p., hundredth, thousandth, equal to, remainder, grouping</p>	<p>Statistics Bar chart, pictogram, frequency table, tally chart, pie chart, discrete data, continuous data, line graph, sum, difference, comparison, interpret, mean average</p>	