Curriculum Intent & Progression Document Mathematics

St. Mary's Catholic Voluntary Academy, Grantham

2022-23



Subject Leader: Miss Steeples

Cathy Steeples St. Mary's Catholic Voluntary Academy, Grantham 2022-23

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.

Cathy Steeples St. Mary's Catholic Voluntary Academy, Grantham 2022-23

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 evolvement 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)

		ЕҮ Матне	FS MATICS		
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
Children will	Children will	Children will	Children will	Children will	Children will
Getting to Know You	It's Me 1 2 3!	Alive in 5!	Building 9 and 10	Find My Pattern	To 20 and Beyond
Opportunities for	W1a: know how to	W1: know that the	W1a: know how the	W1a: know double	W1a: know how to
settling in, introducing	identify representations	number name zero and	counting principles work	facts.	count verbally beyond
the areas of provision	of 1, 2 and 3.	the numeral 0 can be	to 9.	W2a: know how	20.
and getting to know the	W1b: know how to	used to represent this	W2a: know how the	quantities can be	W2a: know to recognise
children.	subitise or count to find	idea.	counting principles work	distributed equally.	the pattern of the
Key times of the day	out how many and	W2a: know that one	to 10.	W3a: know how to	counting system.
and class routines.	make their own	quantity can be more	W3a: know number	explore and represent	W3a: know how to
Exploring continuous	collections of 1, 2 and 3	than, the same as or	bonds to 10.	patterns within numbers	explore simple shape
provision inside an out.	objects.	fewer.	W4a: know how to	to 10 (odd/ even/	arrangements.
Where do things	W1c: know how to	W2b: know the terms of	explore patterns which	double).	
belong? Positional	match the number	full and empty.	are repeated.	W3b: know how to	On the Move
language. [Baselines]	names we say to	W3a: know that all		explore and represent	W1a: know how to
	numerals and	numbers are made up	Consolidation	patterns with shapes	problem solve.
Just Like Me!	quantities.	of smaller numbers.		and models.	W2a: know how to
W1: know how to	W1d: know how to	W3b: know the terms			copy, create and
explore and match	count up to 3 objects in	nearly full and nearly		First Then Now	continue a pattern.
objects which are the	different arrangements.	empty.		W1a: know how to	W3a: know how to use
same.	W2a: know that as we			compare quantities to	positional language to
W2a: know how	count, each number is	Growing 6, 7, 8			make maps and plans.
collections can be	one more.	W1a: know how the		W2a: know that the	
sorted into sets based	W2D: Know that as we	counting principles work		quantity of a group can	
on attributes such as	count back, each			be changed by taking	
colour, size or snape.	number is one fewer.	W2a: know that a pair is		Items away.	
VVZD: KNOW NOW the	vvzc: know that circles	IWO.		vv3a: know now to	
same collection of	nave one curved side			explore and represent	
different ways	three streight sides	find how mony		patierns.	
different ways.	three straight sides.	ning now many			
		altogether.			

	W3a: know that when	W3a: know that all	W3a: know how to		
	making comparisons, a	numbers are made up	describe length and		
	set can have more, the	of smaller numbers.	height using		
	same or fewer than	W3b: know how to use	mathematical language.		
	another set.	positional language.	W3b: know how to		
	W3b: know that objects		order and sequence		
	can be compared and	Light and Dark	important times in their		
	ordered according to	W1a: know how to	dav.		
	their size.	count on and back to 4,	,		
		including subitising.			
		W1b: know that			
		squares and rectangle			
		shave 4 straight sides			
		and 4 corners.			
		W2a: know how to			
		count on and back to 5,			
		including subitising.			
		W3a: know how to			
		subitise and compare			
		as they explore one			
		more and one fewer.			
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EYFS VOCABULARY							
Getting to Know You	Alive in 5!	Find My Pattern					
Just Like Me! Match, sort, same, different, pairs, rule, odd one out, compare, order, size, tall, long, short, large, small, balance, equal, weigh, measure, pattern, repeat It's Me 1 2 3! Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, 2D shapes, circle, triangle, sides, over, under, between, around, through, on, into, next to, behind, beneath, order, repeat, patterns, on top of	Zero, nothing, gone, count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, number bond, mass, weight, heavy, light, heavier than, lighter than, capacity, full, empty, half full, more than, less than Growing 6, 7, 8 Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, pairs, explore, possibilities, length, height, breadth, long, longer, short, shorter, tall, taller, wider, narrower, more than, less than, time, quicker, slower, earlier, later, before, after, first, now, next, today, vesterday, tomorrow, morning, afternoon,	Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, match, sort, same, different, pairs, rule, odd one out, double, twice as many, equal, sharing, grouping, half, even, odd, rotate, manipulate First Then Now Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, match, sort, same, different, pairs, rule, odd one out, adding more, add, plus, altogether, total, taking away, take away, minus, number bonds, part, whole, digit, 2D shapes, triangle, rectangle, sides, tangram, compose, decompose					
Light and Dark Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, 2D shapes, rectangle, square, sides, time, quicker, slower, earlier, later, before, after, first, now, next, today, yesterday, tomorrow, morning, afternoon, evening, day, week, hour, minutes, night, day	evening, day, week, hour, minutes Building 9 and 10 Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, number bond, 3D shapes, cuboid, cube, cone, sphere, curved, straight, flat, pattern, ten frame	To 20 and Beyond Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less, equal to, more than, less than, fewer, match, sort, same, different, pairs, rule, odd one out, tens, ones, ten frame, 2D shapes, circle, triangle, rectangle, square, sides, visualise, build On The Move Count, subitise, order, ordinal, compare, forwards, backwards, numerals, digit, one more, one less					
		equal to, more than, less than, fewer, match, sort, same, different, pairs, rule, odd one out, pattern, relationship, mapping					

Year 1 MATHEMATICS							
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2		
Children will	Children will	Children will	Children will	Children will	Children will		
Number: Place Value	Number: Addition and	Consolidation	Number: Place Value	Consolidation	Geometry: Position		
(within 10)	Subtraction (within		(within 50)		and Direction		
L1: know how to count	10)	Number: Addition and	L7: know how to order	Number:	L1: know how to		
objects.	L7: know how to show	Subtraction (within	numbers within 50.	Multiplication and	describe turns.		
L2: know how to	addition (adding	20)	L8: know how to count	Division	L2: know how to		
represent objects.	together and more).	L1: know how to add by	in 2s.	L1: know how to count	describe position (1).		
L3: know how to count,	L8: know how to find a	counting on.	L9: know how to count	in 2s.	L3: know how to		
read and write forwards	part.	L2: know how to find	in 5s.	L2: know how to count	describe position (2).		
from any number 0 to	L9: know how to show	and make number		in 5s.			
10.	subtraction (taking	bonds.	Measurement: Length	L3: know how to count	Number: Place Value		
L4: know how to count,	away/ how many left?/	L3: know how to add by	and Height	in 10s.	(within 100)		
read and write	crossing out).	making 10.	L1 & 2: know how to	L4: know how to make	L1: know how to count		
backwards from any	L10: know how to show	L4: know how to show	compare lengths.	equal groups.	forwards and		
number 0 to10.	subtraction and	subtraction (not	L3 & 4: know how to	L5: know how to add	backwards within 100.		
L5: know how to count	introduce the	crossing 10).	compare heights.	equal groups.	L2: know how to		
one more.	subtraction symbol.	L5: know how to show	L5: know how to	L6: know how to make	partition numbers.		
L6: know how to count	L11: know how to	subtraction (not	measure length (1).	arrays.	L3: know how to		
one less.	show subtraction by	crossing 10).	L6: know how to	L7: know how to make	compare numbers (1).		
L7: know how to use	fining a part/ breaking	L6: know how to show	measure length (2).	doubles.	L4: know how to		
one-to-one	apart.	subtraction (crossing		L8: know how to make	compare numbers (2).		
correspondence to start	L12: know the 8 facts	10).	Measurement: Weight	equal groups –	L5: know how to order		
to compare groups.	for a fact family.	L7: know how to show	and Volume	grouping.	numbers.		
L8: know how to	L13: know how to show	subtraction (crossing	L1: know how to find	L9: know how to make	L6: know how to find		
compare groups using	subtraction by counting	10).	out about weight and	equal groups – sharing.	one more and one less.		
language such as	back.	L8: know related facts.	mass.				
equal, more/ greater,	L14: know how to show	L9: know how to	L2: know how to	Number: Fractions	Measurement: Money		
less/ fewer and use <, >	subtraction by finding	compare number	measure mass.	L1: know how to find a	L1: know how to		
and = symbols.	the difference.	sentences.	L3: know how to	half (1).	recognise coins.		
L9: know how to	L15: know how to		compare mass.	L2: know how to find a	L2: know how to		
compare numbers.	compare addition and	Number: Place Value	L4: know how to find	half (2).	recognise notes.		
L10: know how to order	subtraction statements.	(within 50)	out about capacity and	L3: know how to find a	L3: know how to count		
groups of objects and	(A + B > C and A + B >	L1: know numbers to	volume.	half.	in coins.		
numbers.	C + D)	50.					

L11: know how to use ordinal numbers. L12: know how to use the number line. Number: Addition and Subtraction (within 10) L1: know how to use a part-whole model. L2: know how to use the addition symbol. L3: know how to use fact families (addition facts). L4: know how to find number bonds for numbers within 10 using a systematic method. L5: know how to find number bonds to 10. L6: know how to compare number bonds.	Geometry: Shape L1: know how to recognise, name and sort 3D shapes. L2: know how to recognise, name and sort 2D shapes. L3: know how to make patterns with 3D and 2D shapes. Number: Place Value (within 20) L1: know how to count forwards and backwards, writing numbers to 20 in numerals and words. L2: know the numbers from $11 - 20$. L3: know how to use tens and ones. L4: know how to count one more and one less. L5: know how to compare groups of objects and numbers. L6: know how to order groups of objects and numbers.	L2: know how to use tens and ones. L3: know how to represent numbers to 50. L4: know how to find one more and one less. L5: know how to compare objects within 50. L6: know how to compare numbers within 50.	L5: know how to measure capacity. L6: know how to compare capacity. Consolidation and Assessment	L4: know how to find a quarter (1). L5: know how to find a quarter (2). L6: know how to find a quarter.	Measurement: Time L1: know how to understand before and after. L2: know dates L3: know how to tell the time to the hour. L4: know how to tell the time to the half hour. L5: know how to write the time. L6: know how to compare time.
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	YEAR 1 VOCABULARY					
Number: Place Value (within 10) One, two, three, four, five, six, seven, eight, nine, ten, one more, one less, first (1 st), second (2 nd), third (3 rd), fourth (4 th), equals, less than, greater than, most, fewest	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	Number: Addition and Subtraction (within 20) 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	Number: Place Value (within 50) Tens, ones, one more, one less, less than, equal to, more than	Number: Multiplication and Division Count, equal groups, array, double, group equally, share equally	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,	
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	Geometry: Shape Side, corner, vertices, vertex, curved, face, straight, 2D, 3D, pattern, square, circle, rectangle, triangle, cube, cuboid, sphere, cylinder, cone	Number: Place Value (within 50) Tens, ones, one more, one less, less than, equal to, more than	Measurement: Length and Height Taller, shorter, longer, tallest, shortest, longest, same, scale, length, height	Number: Fractions Half, equal parts, whole, quarter	Number: Place Value (within 100) Tens, ones, one more, one less, smallest, greatest, less than, equal to, more than	
	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		Measurement: Weight and Volume Weight, mass, scales, heavier, lighter, balanced, capacity, volume, liquid, amount, empty, nearly empty, half full, nearly full, full		Measurement: Money Coin, note, pound, pence, penny 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	
Children will	Children will	Children will	Children will	Children will	Children will	
Number: Place Value	Number: Addition and	Number:	Geometry: Properties	Measurement: Length	Measurement: Time	
L1: know how to count	Subtraction	Multiplication and	of Shape	and Height	L1: know how to tell the	
forwards and	L10: know how to add	Division	L1: know how to	L1: know how to	time to the hour and	
backwards within 20.	two 2-digit numbers	L1: know how to	recognise 2D and 3D	compare lengths and	half hour.	
L2: know how to count	(not crossing 10).	recognise equal groups.	shapes.	heights.	L2: know how to tell the	
forwards and	L11: know how to add	L2: know how to make	L2: know how to count	L2: know how to	time using o'clock and	
backwards within 50.	two 2-digit numbers	and add equal groups.	sides and vertices on	measure lengths.	half past.	
L3: know how to count	(crossing 10).	L3: know how to write	2D shapes.	L3: know how to	L3: know how to tell the	
objects to 100 and read	L12: know how to	multiplication	L3: know how to draw	measure length in cm.	time using quarter past	
and write numbers in	subtract a 2-digit	sentences.	2D shapes.	L4: know how to	and quarter to.	
numerals and words.	number from a 2-digit	L4: know how to use	L4: know what lines of	measure length in m.	L4: know how to tell the	
L4: know how to	number (not crossing	arrays.	symmetry are.	L5: know how to	time to 5 minutes.	
represent tens and one	10).	L5: know how to make	L5: know how to sort	compare and order	L5: know the	
using a part-whole	L13: know how to	doubles (2 times table).	2D shapes.	lengths.	relationship between	
model.	subtract a 2-digit	L6: know the 5 and 10	L6: know hot count	L6: know how to use	hours and days.	
L5: know how to add	number from a 2-digit	times tables.	faces on 3D shapes.	the four operations with	L6: know how to find	
tens and ones.	number (crossing 10).	L7: know how to make	L7: know how to count	lengths.	and compare durations	
L6: know how to use a	L14: know bonds to 100	equal groups by	edges on 3D shapes.		of time.	
place value chart.	(tens and ones).	sharing.	L8: know how to count	Geometry: Position		
L7: know how to	L15: know how to add	L8: know how to make	vertices on 3D shapes.	and Direction	Measurement: Mass,	
compare and order	three 1-digit numbers.	equal groups by	L9: know how to sort	L1: know how to	Capacity and	
objects and numbers.		grouping.	3D shapes.	describe position (1).	Temperature	
L8: know how to count	Measurement: Money	L9: know how to divide		L2: know how to	L1: know what weight	
in 2s, 5s and 10s.	L1: know how to count	by 2.	Number: Fractions	describe position (2).	and mass are.	
L9: know how to count	money in pence.	L10: know what odd	L1: know how to make	L3: know how to	L2: know how to	
in 3s.	L2: know how to count	and even numbers are.	equal parts.	describe movement.	measure and compare	
	money in pounds.	L11: know how to divide	L2: know how to	L4: know how to	mass.	
Number: Addition and	L3: know how to count	by 5.	recognise and find a	describe turns.	L3: know how to	
Subtraction	money in notes and	L12: know how to divide	half.	L5: know how to	measure mass in	
L1: know how to find	coins.	by 10.	L3: know how to	describe movement and	grams.	
fact families to 20.	L4: know how to find		recognise a quarter.	turns.	L4: know how to	
L2: know how to check	the total.	Statistics	L4: know how to find a	L6: know how to make	measure mass in	
calculations.			quarter.	patterns with shapes.	kilograms.	

	compare number sentences and know related facts. L4: know bonds to 100 (tens). L5: know how to add and subtract 1s. L6: know how to find 10 more and 10 less. L7: know how to add a 2-digit number and a 1- digit number (crossing 10). L9: know how to subtract (crossing 10).	change. L6: know how to solve two-step problems. Number: Multiplication and Division L1: know how to make equal groups. L2: know how to add equal groups. L3: know how to make arrays.	tally charts. L2: know how to draw pictograms (1-1). L3: know how to interpret pictograms (1- 1). L4: know how to draw pictograms (2, 5 and 10). L5: know how to interpret pictograms (2, 5 and 10). L6: know how to make and interpret block diagrams.	third. L6: know what unit fractions are. L7: know what non-unit fractions are. L8: know the equivalence of ½ and 2/4. L9: know how to find three quarters.	Consolidation and Problem Solving	and volume are. L6: know how to measure capacity and compare volume. L7: know what millilitres are. L8: know what litres are. L9: know what temperature is. Consolidation and Assessment
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		YEAR 2 VO	CABULARY		
Number: Place Value	Measurement: Money	Number:	Geometry: Properties	Measurement: Length	Measurement: Time
Hundreds, tens, ones,	Pence, pound, coin,	Multiplication and	of Shape	and Height	Time, clock, hours,
zero, place value,	note, total, amount,	Division	Two-dimensional (2D),	Length, long, short,	minutes, hand, o'clock,
greater than, less than,	change, difference,	Groups, equal groups,	three-dimensional (3D),	height, tall, measure,	half past, quarter past,
order, partition, digit	price, cost, pay, owe	lots of, arrays, repeated	flat, solid, corner, apex,	ruler, tape measure,	quarter to, five minutes,
		addition, multiplication,	vertex, vertices, side,	metre stick, centimetre	duration, shorter, longer
		times tables	edge, face, curved,	(cm), metre (m),	
			straight, round, line of	compare, order	
			pattern pentagon		
			hexagon guadrilateral		
			triangular prism.		
			square-based pyramid		
Number: Addition and S	Subtraction	Statistics	Number: Fractions	Geometry: Position	Measurement: Mass,
Add, total, make, plus, su	ım, more, altogether,	Data, interpret, key,	Fraction, part, whole,	and Direction	Capacity and
difference, leave, subtrac	t, difference between,	tally chart, pictogram,	equal, share, half,	Forwards, backwards,	Temperature
less, minus, take away, n	nentally, orally, column	block diagram, table,	quarter, third,	left, right, north, south,	Mass, gram, kilogram,
addition, column subtract	ion, estimate, inverse	total, compare, symbol	equivalent, numerator,	east, west, quarter turn,	lighter, heavier,
operation, solve problem	s, number facts		denominator	half turn, three-quarter,	capacity, volume,
				turn, clockwise,	millilitre, litre,
				anticiockwise, pattern,	degrees
	Number			sequence	degrees
	Multiplication and				
	Division				
	Groups, equal groups,				
	lots of, arrays, repeated				
	addition, multiplication,				
	times tables				

Year 3 MATHEMATICS							
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2		
Children will	Children will	Children will	Children will	Children will	Children will		
Number: Place Value	Number: Addition and	Number:	Measurement:	Number: Fractions	Geometry: Properties		
L1: know how to	Subtraction	Multiplication and	Perimeter	L1: know how to make	of Shape		
represent numbers to	L10: know how to	Division	L1: know how to	the whole.	L1: know what turns		
100.	subtract a 2-digit	L1: know how to	measure length.	L2: know how to count	and angles are.		
L2: know how to use	number from a 3-digit	consolidate 2, 4 and 8	L2: know how to	in tenths.	L2: know how to find		
tens and ones using	number (crossing 10 or	times tables.	measure length (m).	L3: know how to	right angles in shapes.		
addition.	100)	L2: know how to	L3: know how to find	convert tenths into	L3: know how to		
L3: know how to	L11: know how to add	compare statements.	equivalent lengths (m	decimals.	compare angles.		
represent numbers to	two 3-digit numbers	L3: know how to find	and cm).	L4: know how to	L4: know what		
1000.	(not crossing 10 or	related calculations.	L4: know how to find	represent fractions on a	horizontal and vertical		
L4: know the value of	100).	L4: know how to	equivalent lengths (mm	number line.	mean.		
100s, 10s and 1s.	L12: know how to add	multiply 2-digits by 1-	and cm).	L5: know to find	L5: know what parallel		
L5: know how to use a	two 3-digit numbers	digit (1).	L5: know how to	fractions of a set of	and perpendicular		
number line to 1000.	(crossing 10 or 100).	L5: know how to	compare lengths.	objects.	mean.		
L6: know how to find 1,	L13: know how to	multiply 2-digits by 1-	L6: know how to add	L6: know how to find	L6: know how to		
10 and 100 more or	subtract a 3-digit	digit (2).	lengths.	equivalent fractions.	recognise and describe		
less than a given	number from a 3-digit	L6: know how to divide	L7: know how to	L7: know how to	2D and 3D shapes.		
number.	number (no exchange).	2-digits by 1-digit (1).	subtract lengths.	compare fractions.			
L7: know how to	L14: know how to	L7: know how to divide	L8: know how to	L8: know how to order	Measurement: Mass		
compare objects and	subtract a 3-digit	2-digits by 1-digit (2).	measure perimeter.	fractions.	and Capacity		
numbers to 1000.	number from a 3-digit	L8: know how to scale	L9: know how to	L9: know how to add	L1: know how to		
L8: know how to order	number (exchange).	numbers.	calculate perimeter.	and subtract fractions	compare mass.		
numbers.	L15: know how to	L9: know how to find		(same denominator).	L2: know how to		
L9: know how to counts	estimate and check	how many ways you	Number: Fractions		measure mass.		
in 50s.	answers to calculations.	can make a number.	L1: know how to	Measurement: Time	L3: know how to		
			recognise and find a	L1: know how to tell the	compare mass.		
Number: Addition and	Number:	Measurement: Money	half.	time (o'clock/ half past/	L4: know how to add		
Subtraction	Multiplication and	L1: know how to count	L2: know how to	quarter past/ quarter	and subtract mass.		
L1: know how to add	Division	money in pounds and	recognise and find a	to).	L5: know how to		
and subtract multiples	L1: know how to	pence.	quarter.	L2: know months and	compare volume.		
of 100.	multiply using equal	L2: know how to	L3: know how to	years.	L6: know how to		
L2: know how to add	groups.	convert pounds and	recognise and find a	L3: know how to tell the	measure capacity.		
and subtract 3-digit and		pence.	third.	time to 5 minutes.			

r-digit numbers (not crossing 10). L3: know how to add 2- digit/ 3-digit and 1-digit numbers (crossing 10). L4: know how to subtract a 1-digit number from a 2-digit/ 3-digit number (crossing 10). L5: know how to add and subtract 3-digit and 2-digit numbers (not crossing 100). L6: know how to add and subtract 3-digit and 2-digit numbers (crossing 100). L7: know how to add and subtract 100s, spotting patterns. L8: know how to add a 2-digit number and 3- digit numbers (crossing 10 or 100). L9: know how to subtract a 2-digit number from a 3-digit number (crossing 10 or 100)	 L2. Know the multiplication symbol and how to use arrays. L3: know the 2 times table and divide by 2. L4: know the 5 times table and divide by 5. L5: know how to make equal groups using sharing. L6: know how to make equal groups using grouping. L7: know how to divide by 10. L8: know how to divide by 3. L9: know how to divide by 3. L10: know how to multiply by 3. L10: know how to multiply by 8. L12: know how to divide by 4. 	 L3. Know how to add money. L4: know how to subtract money and give change. Statistics L1: know how to make tally charts. L2: know how to draw pictograms (2, 5 and 10). L3: know how to interpret pictograms (2, 5 and 10). L4: know how to explore pictograms. L5: know how to explore bar charts. L6: know how to explore tables. 	L4. Know the difference between unit and non- unit fractions. L5: know the equivalence of ½ and 2/4. L6: know how to count in fractions. Consolidation and Assessment	time to the minute. L5: know how to use am and pm. L6: know how to use the 24-hour clock. L7: know how to find and compare durations. L8: know how to find start and end times. L9: know how to measure time in seconds.	L7. Know how to compare capacity. L8: know how to add and subtract capacity. L9: know what temperature is. Consolidation and Assessment
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	YEAR 3 VOCABULARY					
Number: Place Value Hundreds, tens, ones, zero, greater than, less than, order, more, less, partition, digit	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	Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, equivalent, halves, thirds, quarters, fifths, sixths, eighths, tenths, decimal tenths	Geometry: Properties of 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	
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: Money Amount, change, coin, combinations, convert, note, pence, penny, pounds, value	Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, equivalent, halves, thirds, quarters, fifths, sixths, eighths, tenths, decimal tenths	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	Measurement: Mass and Capacity Mass, gram, kilogram, capacity, volume, millilitre, litre, lighter, heavier	
		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
Children will	Children will	Children will	Children will	Children will	Children will
Number: Place Value	Measurement: Length	Number:	Number: Fractions	Number: Decimals	Statistics
L1: know how to	and Perimeter	Multiplication and	L7: know how to	L1: know bonds to 100	L1: know how to
represent numbers to	L1: know how to	Division	subtract fractions.	and 100.	interpret charts
1000.	calculate equivalent	L1: know the 11 and 12	L8: know how to	L2: know how to make	(comparison, sum and
L2: know how to use a	lengths (m and cm/ mm	times table.	subtract 2 fractions.	a whole.	difference).
number line to 1000.	and cm)	L2: know how to	L9: know how to	L3: know how to write	L2: know what a line
L3: know how to round	L2: know how to	multiply 3 numbers.	subtract from whole	decimals.	graph is.
to the nearest 10.	calculate and convert	L3: know how to find	amounts.	L4: know how to	L3: know how to
L4: know how to round	kilometres.	factor pairs.	L10: know how to find	compare and order	interpret a line graph.
to the nearest 100.	L3: know how to add	L4: know how to use	fractions of a set of	decimals.	
L5: know how to count	and subtract lengths.	written methods.	objects.	L5: know how to round	Geometry: Properties
in 1000s.	L4: know how to	L5: know how to	L11: know how to	decimals.	of Shape
L6: know how to	measure perimeter.	multiply 2-digits by 1-	calculate fractions of a	L6: know what halves	L1: know what turns
represent 1000s, 100s,	L5: know how to find	digit.	quantity.	and quarters are as	and angles are,
10s and 1s using	perimeter on a grid.	L6: know how to	L12: know how to show	decimals.	including right angles in
partitioning.	L6: know how to	multiply 3-digits by 1-	problems that involve		shapes.
L7: know how to use a	measure the perimeter	digit.	calculating quantities.	Measurement: Money	L2: know how to
number line to 10,000.	of a rectangle/	L7: know how to divide		L1: know how to count	compare and identify
L8: know how to find 1,	rectilinear shape.	2-digits by 1-digit (1).	Number: Decimals	money in pounds and	angles.
10, 100 and 1000 more		L8: know how to divide	L1: know how	pence.	L3: know how to
or less.	Number:	2-digits by 1-digit (2).	recognise tenths and	L2: know how to order	compare and order
L9: know how to	Multiplication and	L9: know how to divide	hundredths.	and estimate money.	angles.
compare and order	Division	3-digits by 1-digit.	L2: know what tenths	L3: know how to	L4: know how to
numbers.	L1: know how to		are as decimals.	convert pounds and	recognise and describe
L10: know how to round	multiply by 10 and 100.	Measurement: Area	L3: know how to place	pence.	2D shapes.
to the nearest 1000.	L2: know how to divide	L1: know what area is.	tenths on a place value	L4: know how to add	L5: know the properties
L11: know to recognise	by 10.	L2: know how counting	grid and a number line.	money.	of different triangles.
negative numbers.	L3: know how to divide	squares can help to find	L4: know how to divide	L5: know how to	Lo: know the properties
L12: know Roman	by 100.	the area.	1-digit numbers by 10.	subtract money and find	of quadrilaterals.
Numerals to 100.	L4: know how to	L3: know how to make	L5: know how to divide	change.	L7: know what
	multiply by 1 and 0.	shapes.	2-digit numbers by 10.	Lo: know how to use	horizontal and vertical
Number: Addition and	L5: know how to divide		L6: know what	the four operations	means.
Subtraction	by 1 and itself.	Number: Fractions	hundredths are.		

 L1: know how to add and subtract 1s, 10s, 100s and 1000s. L2: know how to add two 3-digit or 4-digit numbers (not crossing 10 or 100). L3: know how to add two 4-digit numbers with more than one exchange. L4: know how to subtract a 3-digit number from a 3-digit number from a 4-digit number (no exchange). L5: know how to subtract a 3-digit number from a 3-digit number from a 3-digit number from a 3-digit number with exchange. L6: know how to subtract two 4-digit numbers with one exchange. L7: know how to subtract two 4-digit numbers with one exchange. L8: know what is efficient subtraction. L9: know how to estimate answers and check strategies. 	Lo: know how to multiply and divide by 3 (times table and division facts). L7: know how to multiply and divide by 6 (times table and division facts). L8: know how to multiply and divide by 9 (times table and division facts). L9: know how to multiply and divide by 7 (times table and division facts).	L1: know what unit and non-unit fractions are. L2: know what tenths are and how to count in tenths. L3: know how to find equivalent fractions (1). L4: know how to find fractions greater than 1. L6: know how to add 2 or more fractions.	L7. know what hundredths are as decimals. L8: know how to place hundredths on a place value grid. L9: know how to divide 1 or 2-digits by 100. Consolidation and Assessment	 Measurement: Time L1: know how to tell the time to 5 minutes. L2: know how to tell the time to the minute. L3: know how to use am and pm and tell the time using the 24-hour clock. L4: know the relationship between hours, minutes and seconds as well as years, months, weeks and days. L5: know how to convert time from analogue to digital (12-hour). L6: know how to convert time from analogue to digital (24-hour).	L8: know how to find lines of symmetry. L9: know how to complete a symmetric figure. Geometry: Position and Direction L1: know how to describe position. L2: know how to draw and move on a grid. L3: know how to describe movement on a grid. Consolidation and Assessment
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		YEAR 4 VO	CABULARY		
Number: Place Value Thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded to, negative number, partition, digit, roman numeral	Measurement: Length and Perimeter Kilometres, metres, centimetres, millimetres, distance, length, width, rectilinear, right angle	Number: Multiplication and Division Multiply, groups of, lots of, times, divide, share, remainder, factor, multiple, product, short multiplication, short division	Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, equivalent, quantities, whole, halves, thirds, quarters, fifths, sixths, sevenths, eighths, ninths, tenths,	Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point, place value	Statistics Bar chart, pictogram, frequency table, tally chart, discrete data, continuous data, time graph, sum, difference, comparison, interpret
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	Number: Multiplication and Division Multiply, groups of, lots of, times, divide, share, remainder, factor, multiple, product, short multiplication, short division	Measurement: Area Kilometres, metres, centimetres, squares, space, length, width, rectilinear	elevenths, twelfths Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point, place value	Measurement: Money Amount, change, combinations, estimate, decimal, pence, penny, pounds, round, value, convert	Geometry: Properties of 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
		Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, equivalent, quantities, whole, halves, thirds, quarters, fifths, sixths, sevenths, eighths, ninths, tenths, elevenths, twelfths		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.	Geometry: Position and Direction Coordinate, quadrant, x-axis, y-axis, translation, vertex, vertices

Year 5 MATHEMATICS					
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
Children will	Children will	Children will	Children will	Children will	Children will
Number: Place Value	Statistics	Number:	Number: Fractions	Consolidation	Geometry: Properties
L1: know how to	L4: know how to read	Multiplication and	L10: know how to add		of Shape
represent numbers to	and interpret tables.	Division	mixed numbers.	Number: Decimals	·
10,000.	L5: know how to read	L1: know how to	L11: know how to	L1: know how to add	L7: know the properties
L2: know how to round	and interpret two-way	multiply 2 and 3-digits	subtract fractions.	and subtract decimals	of different triangles
to the nearest 10, 100	tables.	by 1-digit.	L12: know how to	within 1.	and quadrilaterals.
and 1000.	L6: know how to read	L2: know how to	subtract mixed	L2: know how to add	L8: know how to
L3: know how to	and interpret	multiply 4-digits by 1-	numbers.	decimals (crossing the	calculate lengths and
represent, compare and	timetables.	digit.	L13: know how to	whole).	angles in shapes.
order numbers to		L3: know how to	subtract 2 mixed	L3: know how to add	L9: know the different
100,000.	Number:	multiply 2-digits by 2-	numbers.	and subtract decimals	between regular and
L4: know how to round	Multiplication and	digits, including the are	L14: know how to	with the same number	irregular polygons.
numbers within	Division	model.	multiply unit fractions by	of decimal places.	
100,000.	L1: know what multiples	L4: know how to	an integer.	L4: know how to add	Geometry: Position
L5: know how to	and factors are.	multiply 3-digits by 2-	L15: know how to	decimals with a	and Direction
represent numbers to a	L2: know what common	digits.	multiply non-unit	different number of	L1: know how to
million.	factors are.	L5: know how to	fractions by an integer.	decimal places.	describe position and
L6: know how to	L3: know what prime	multiply 4-digits by 2-	L16: know how to	L5: know how to	draw on a grid.
compare and order	numbers are.	digits.	multiply mixed numbers	subtract decimals with a	L2: know how to
numbers to one million.	L4: know what square	L6: know how to divide	by integers.	different number of	describe the position in
L7: know how to round	and cube numbers are.	2-digits by 1-digit.	L17: know how to	decimal places.	the first quadrant.
numbers to one million.	L5: know how to	L7: know how to divide	calculate fractions of a	L6: know how to add	L3: know what
L8: know what negative	multiply by 10 and 100.	3-digits by 1-digit.	quantity or an amount.	and subtract wholes	translation is and
numbers are.	L6: know how to	L8: know how to divide	L18: know how use	and decimals.	complete it with co-
L9: know Roman	multiply by 10, 100 and	4-digits by 1-digit.	fractions as operators.	L7: know how to	ordinates.
Numerals to 1,000.	1,000.	L9: know how to divide		complete decimal	L4: know how to find
	L7: know how to divide	with remainders.	Number: Decimals	sequences.	lines of symmetry and
Number: Addition and	by 10 and 100.		and Percentages	L8: know how to	complete a symmetric
Subtraction	L8: know how to divide	Number: Fractions	L1: know how to	multiply decimals by 10,	figure.
L1: know how to add	by 10, 100 and 1000.	L1: know what a	represent numbers with	100 and 1,000.	L5: know what
two 4-digit numbers	L9: know how to find	fraction is.	up to 2 decimal places.	L9: know how to divide	reflection is.
(more than one	multiples of 10, 100 and	L2: know how to find		decimals by 10, 100	
exchange).	1,000.	equivalent fractions.		and 1,000.	

L2: know how to add		L3: know how to find	L2: know how to		L6: know how to
whole numbers with	Measurement:	fractions greater than 1.	represent decimals as	Geometry: Properties	complete translation
more than 4 digits	Perimeter and Area	L4: know how to	fractions.	of Shape	with co-ordinates.
(column method).	L1: know how to	convert improper	L3: know what	L1: know how to	
L3: know how to	measure and find the	fractions to mixed	thousandths are and	identify, compare and	Measurement:
subtract two 4-digit	perimeter on a grid.	numbers.	represent them as	order angles.	Converting Units
numbers (more than	L2: know how to	L5: know how to	decimals.	L2: know how to	L1: know how to
one exchange).	measure the perimeter	convert mixed numbers	L4: know how to round,	measure angles in	convert kilograms and
L4: know how to	of a rectangle/	to improper fractions.	compare and order	degrees.	kilometres.
subtract whole numbers	rectilinear shape.	L6: know how to	decimals.	L3: know how to	L2: know how to
with more than 4 digits	L3: know how to	compare and order	L5: know what	measure with a	convert millimetres and
(column method).	calculate perimeter.	fractions less than and	percentages are.	protractor.	millilitres,
L5: know how to round	L4: know how to count	greater than 1.	L6: know the	L4: know how to draw	L3: know what metric
to estimate and use the	squares to find the area	L7: know how to add	relationship between	lines and angles	units are.
inverse operations	of rectangles.	and subtract fractions.	fractions, decimals and	accurately.	L4: know what imperial
(addition and	L5: know how to find	L8: know how to add	percentages.	L5: know how to	units are.
subtraction).	the area of compound	fractions within 1.		calculate angles on a	L5: know how to
L6: know how to solve	shapes.	L9: know how to add 3	Consolidation and	straight line.	convert units of time.
multi-step addition and	L6: know how to find	or more fractions.	Assessment	L6: know how to	L6: know how to read
subtraction problems.	the area of irregular			calculate angles around	and interpret
	shapes.			a point.	timetables.
Statistics					
L1: know how to					Measurement: Volume
interpret charts					L1: know what volume
(comparison, sum and					is.
difference).					L2: know how to
L2: know what a line					compare and estimate
graph is and be able to					volume.
read and interpret					L3: know how to
them.					estimate capacity.
L3: know how to draw					
line graphs and use					
them to solve problems.					

	YEAR 5 VOCABULARY					
Number: Place Value Millions, thousands, hundreds, tens, ones, zero, greater than, less than, order, round, rounded, negative number, partition, digit, interval, sequence, linear sequence Number: Addition and Subtraction Add, total, make, plus, sum, more, altogether, difference, subtract	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	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	Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, whole, equivalent, mixed number, improper fraction, simplest form, multiple, common denominator, common numerator	Number: Decimals Tenths, hundredths, decimal tenths, decimal hundredths, decimal equivalents, part-whole model, rounding, decimal point	Geometry: Properties of 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	
less, minus, take away, column addition, column subtraction, estimate, inverse operation, number facts, complex 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	Number: Multiplication and Division Multiply, groups of , lots of, times, divide, share, remainder, factor, multiple, product, squared, cubed, short multiplication, short division Measurement: Perimeter and Area Metre kilometre, length, width, rectangle, rectilinear, dimensions, Squared units (m ²)	Number: Fractions Numerator, denominator, unit fraction, non-unit fraction, whole, equivalent, mixed number, improper fraction, simplest form, multiple, common denominator, common numerator	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	Geometry: Properties of 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	Geometry: Position and Direction Coordinate, quadrant, x-axis, y-axis, reflection, mirror line, translation, horizontal, vertical Measurement: Converting Units Mass, gram, kilogram, capacity, volume, millilitre, centilitre, litre, millimetre, centimetre, kilometre Measurement: Volume Cubed, area, cross- section, prism, cube, cuboid, face, length, height, width, depth	

Year 6 MATHEMATICS					
ADVENT 1	ADVENT 2	LENT 1	LENT 2	PENTECOST 1	PENTECOST 2
Children will	Children will	Children will	Children will	Children will	Children will
Number: Place Value	Number: Addition,	Number: Decimals	Measurement:	Statistics	Themed Projects
L1: know numbers to	Subtraction,	L1: know decimals up	Converting Units	L1: know how to read	
10,000 and 100,000.	Multiplication and	to 2 decimal places.	L1: know how to	and interpret line	
L2: know numbers to a	Division	L2: know how to record	convert between and	graphs.	
million and ten million.	L13: know prime	numbers to three	calculate metric	L2: know how to draw	
L3: know how to r	numbers to 100.	decimal places.	measures.	line graphs.	
compare and order any	L14: know square and	L3: know multiply and	L2: know how to	L3: know how to	
number.	cube numbers.	divide by 10, 100 and	convert between miles	illustrate and name	
L4: know how to round	L15: know the order of	1000.	and kilometres.	parts of a circle.	
numbers to 10, 100 and o	operations.	L4: know multiply and	L3: know what imperial	L4: know how to read	
1000.		divide decimals by	measures are.	and interpret pie charts	
L5: know how to round	Number: Fractions	integers.		(percentages).	
any number.	L1: know equivalent	L5: know how to	Measurement:	L5: know how to draw	
L6: know negative f	fractions.	convert decimals to	Perimeter, Area and	pie charts.	
numbers.	L2: know how to	fractions.	Volume	L6: know how to	
s	simplify fractions.	L6: know how to	L1: know which shapes	calculate the mean.	
Number: Addition,	L3: know how to	convert fractions to	have the same area.		
Subtraction,	convert from improper	decimals.	L2: know what area and	Geometry: Properties	
Multiplication and f	fractions to mixed		perimeter are.	of Shape	
Division r	numbers and vice	Number: Percentages	L3: know how to find	L1: know how to	
L1: know how to add	versa.	L1: know how to	the area of a triangle.	measure with a	
and subtract whole	L4: know how to place	understand	L4: know how to find	protractor.	
numbers with more f	fractions on a number	percentages.	the area of a	L2: know how to draw	
than 4 digits.	line.	L2: know how to	parallelogram.	lines and angles	
L2: know how to solve	L5: know how to	convert fractions to	L5: know what volume	accurately.	
multi-step addition and	compare and order	percentages.	is (counting cubes).	L3: know how to	
subtraction problems. f	fractions (denominator	L3: know how to find	L6: know how to find	calculate angles on a	
L3: know how to add	and numerator).	equivalent fractions,	the volume of a cuboid.	straight line and around	
and subtract integers.	L6: Know how to add	decimals and		a point.	
L4: know how to	and subtract fractions.	percentages.	Number: Ratio	L4: know how to	
multiply 4-digits by 1-	L7: know how to add	L4: know how to order	L1: know how to use	calculate vertically	
aigit.	and subtract mixed	fractions, decimals and	ratio language.	opposite angles.	

L5: know how to multiply 2-digits by 2- digits (area model). L6: know how to multiply 3-digits by 2- digits. L7: know how to multiply a 4-digit number by 2-digit number. L8: know how to divide 4-digits by 1-digit (including remainders). L9: know how to use the short division written method. L10: know what factors are. L12: know what common factors and multiples are.	L5: know how to find a percentage of an amount. L6: know how to find percentages (missing values). Number: Algebra L1: know how to find a rule (one step and two step). L2: know how to form expressions. L3: know how to form equations. L5: know how to solve one-step and two-step equations. L6: know how to find pairs of values.	L2: know how ratio and fractions are connected. L3: know what the ratio symbol is and calculate ratio. L4: know how to use scale factors. L5: know how to calculate scale factors. L6: know how to solve ratio and proportion problems. Consolidation and Assessment	L5: know how to calculate angles in a triangle (special cases/ missing angles). L6: know how to calculate angles in special quadrilaterals. L7: know how to calculate angle sin regular polygons. L8: know how to draw shapes accurately. L9: know how to draw nets of 3D shapes. Consolidation	
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	YEAR 6 VOCABULARY					
Number: Place Value	Number: Fractions	Number: Decimals	Measurement:	Statistics		
Ten million, millions,	Numerator,	Decimal place, decimal	Converting Units	Bar chart, pictogram, frequency table, tally chart,		
thousands, hundreds,	denominator, proper	fraction, recurring	Mass, gram, kilogram,	pie chart, discrete data, continuous data, line		
tens, ones, zero,	fraction, improper	decimal, equivalent	capacity, volume,	graph, sum, difference, comparison, interpret,		
greater than, less than,	fraction, factor, nignest	fraction, tenth, sharing,	millitre, litre, millimetre,	mean average		
pogativo numbor	lowest common	exchanging rounding to	kilomotro foot inch			
nartition digit interval	multiple equivalents	3d n bundredth	ounce pound stone			
sequence linear	common numerator	thousandth equal to	pint gallon			
sequence	common denominator.	remainder, grouping				
	decimal equivalent,	, <u>g</u> , e e pg				
	simplify, simplest form,					
	mixed number, whole					
	number					
Number: Addition, Subtraction, Multiplication		Number: Percentages	Measurement:	Geometry: Properties of Shape		
and Division	14 A	Per cent (%) = out of	Perimeter, Area and	Angle, right angle, acute, obtuse, reflex,		
Add, total, make, plus, su	Im, more, altogether,	100, discount,		protractor, norizontal, vertical, parallel,		
loss minus take away n	antally orally column	equivalent fraction,	Squared units (m ⁻),	dimensional, three dimensional flat face, surved		
addition column subtract	tion estimate inverse	convert compare	cuboid width length	surface edge curved edge vertex vertices		
operation, solve problem	number facts, complex	order, the whole	rectangle, rectilinear.	apex radium diameter circumference		
multiply, groups of , lots of	of, times, divide, share,		parallelogram,			
remainder, factor, multipl	e, product, squared,		perpendicular height			
cubed, prime, short multi	plication, long					
multiplication, short divisi	on, brackets, BODMAS					
	Geometry: Position	Number: Algebra	Number: Ratio			
	and Direction	Term to term rule,	Proportion, for every			
	I ranslate, translation,	variable, unknown,	, there are, part,			
	reflect, reflection, up,	expression, equation,	whole, scale factor,			
	coordinates quadrant	orgunation two-step	shapes longth width			
		equation, two-step	perimeter			
		pair of unknowns.				
		enumerate				