

PRIMARY SCHOOL

'Working together to love learning'

THE MATHEMATICS CURRICULUM: A PROGRESSION

Whole School Mathematics Progression Map

At Little Bowden, we *work together to love learning*. Our mathematics curriculum is **ambitious**, **memorable** and **diverse**; aiming to take children on a progressive, clear and exciting journey from the time they start with us in EYFS, to the time they leave us in Year 6. Our ambition is to ensure our maths curriculum is accessible to all and caters for every child's ability, whilst ensuring we provide every opportunity for children to reach their full potential. We believe Mathematics is a tool for everyday life. Mathematics teaches us how to make sense of the world around us. Our maths curriculum enables us to develop children's ability to calculate, communicate, reason and solve problems.

We endeavour to ensure all children become fluent in the fundamentals of mathematics so that they develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. We deliver lessons that are creative and engaging. We want children to make rich connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems using a Concrete, Pictorial, into Abstract approach.

We intend for our children to be able to apply their mathematical knowledge to science and across a range of other subjects. We want children to recognise that Mathematics has developed over centuries and has been the fundamental basis for huge advances in Science, Engineering, Technology and Sport.

We believe in making mathematical learning come alive within a real-life context and endeavour to make sure that the children realise the subject is essential to everyday life and financial literacy. Irrespective of year group, we want our children to have the ability to reason mathematically and have an appreciation of the beauty and power of mathematics, whilst embracing a sense of enjoyment and curiosity about the subject. We strive for all to be actively engaged in their own learning, to be motivated and eager and to achieve and attain to their full potential in Mathematics.

Planning is based on National Curriculum objectives with priority given to those objectives covered in the NCETM Ready to Progress materials and documents. Teachers utilise resources from the White Rose scheme of work as a basis for their planning. Lessons are designed so that conceptual understanding underpins learning, and that opportunities are provided to embed learning before moving on to the next step. Lessons are planned and sequenced so that new knowledge and skills build on what has been taught before.

As mathematics is a logically structured subject, based on a set of axioms, gaps in understanding directly impact on subsequent learning. The aim of all lessons is to develop children's knowledge, understanding and skills, applying these to a variety of contexts. When planning a sequence of lessons, teachers will:

- Use precise questioning to test conceptual and procedural knowledge.
- Know how and when manipulatives should be used to scaffold tasks or enhance understanding.
- Introduce new concepts in small steps.
- Provide opportunities to use skills in a range of contexts.
- Include tasks and challenge questions which challenge pupils to apply and deepen their learning and mathematical reasoning.
- Provide opportunities for individual, group and whole-class activities and discussions.
- Ensure the use of high-quality maths language. (Children should read, spell and pronounce mathematical vocabulary correctly see Little Bowden mathematics progression across the school).
- Provide opportunities to use technology (laptops and iPads) as a mathematical tool.
- Revisit concepts and number facts to ensure learning is committed to long term memory. Revisiting prior learning will be carried out as part of a daily maths lesson but can also take place separately as a quick activity, or quiz. Children's skill, knowledge and understanding is assessed against the National Curriculum attainment targets. The impact of the mathematics curriculum on learners will be monitored primarily by the class teacher who is responsible for all teacher assessment. Teacher assessment is recorded at the end of each term.

The Mathematics Lead, KS2 Lead, Deputy and Headteacher monitor progress on a regular basis in the form of observations, learning walks, data analysis, pupil progress meetings, work sampling and pupil voice.

Formative assessment will be a key part of every lesson. The teacher will share the objectives for the lesson along with a clear success criterion in order for children to be clear on what is being expected of them to successfully achieve the objective.

Furthermore, short-term assessment will also involve the teacher checking the children's understanding at the end of the session to inform future planning and lessons.

Summative assessment is undertaken using standardised tests at the end of every term.

Statutory assessment

We follow all statutory endpoint assessments as follows:

Reception Year: Children are assessed using the Early Years Foundation Stage (EYFS) Profile. At the end of Reception, teachers will make judgements across 17 aspects of learning (7 in the Prime Areas and 10 in the Specific Areas). Children will be judged as either 'Emerging' or 'Expected' in each of these areas. This will include a judgement for Number.

Year 2: Children are assessed using a Statutory Teacher Assessment Framework for Reading, Writing, Maths and Science. Teachers use government-provided tests but these are not reported to anyone externally and only inform overall teacher judgements.

Year 4: Children take a multiplication tables check (MTC) to determine whether pupils can recall their times tables fluently, which is essential for future success in mathematics. It will help schools to identify pupils who have not yet mastered their times tables, so that additional support can be provided.

Year 6: Children sit government regulated 'SAT' tests in Reading, Maths and Grammar, Punctuation and Spelling. They are also assessed using a statutory Teacher Assessment Framework for Reading, Writing, Maths and Science.

Mathematics in the Early Years

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

MATHEMATICS: Progress through Reception

Number and numerical pattern

Baseline Checkpoint	End of Autumn Term	End of Spring Term Checkpoint	End of Summer Term
	Checkpoint		Checkpoint
Number – children can:	Children should be working at	Children should be working at	Children at the expected level
*Count with 1:1	a level which sees them:	a level which sees them:	of development will:
correspondence to 5	*Beginning to familiarise	*Show a number of fingers	
*Match numerals to amounts to	themselves with the tens	together without counting;	Number:
Numerical Patterns – children can: *Identify patterns and continue a simple repeated pattern.	*Counting up to three or four objects by saying one number name for each item; *Counting objects to 10 and beginning to count beyond 10; *Counting out up to six objects from a larger group;	*Beginning to use 'teens' to count beyond 10; *Counting an irregular arrangement of up to ten objects; *Finding one more or one fewer from a group of up to five objects, then ten objects; *Estimating how many objects	*Have a deep understanding of number to 10, including the composition of each number; *Subitise (recognise quantities without counting) up to 5; *Automatically recall (without reference to rhymes, counting or other aids) number bonds

*Selecting the correct numeral to represent 1 to 5, then 1 to 10 objects;

*Recognising some numerals of personal significance;

*Linking the number symbol (numeral) with its cardinal value.

they can see and checking by counting them;

*Using the language of 'more' and 'fewer' to compare two sets of objects;

*Understanding 5, 6, 7 etc and all manipulations of the number;

*Finding the total number of items in two groups by counting all of them; *Beginning to use the vocabulary involved in adding and subtracting including counting on and back;

*Understand addition up to 5 using all combinations. Then 6, 7, 8, 9, 10;

*Automatically recall number bonds for numbers 0 to 10...

up to 5 (including subtraction facts) and some number bonds to 10, including double facts.

Numerical patterns:

_*Verbally count beyond 20, recognising the pattern of the counting system;

*Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;

*Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.

MATHEMATICS: Progress through Reception Shape, space and measures (not in expectations)

Baseline Checkpoint	End of Autumn Term Checkpoint	End of Spring Term Checkpoint	End of Summer Term Checkpoint
Children can: *Confidently name basic shapes by their properties.	Children should be working at a level which sees them: *Talking about the routine of the day and using language like, before and after; *Using comparative language such as, 'taller', 'shorter' and 'the same';	Children should be working at a level which sees them: *Beginning to experiment with length, height and capacity; *Beginning to compare length, weight and capacity; *Identifying money and using	Note there is no early learning goal for this section Children at the expected level of development will: everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities;
	*Being more confident in identifying shapes in the environment; **Recognising particular shapes that may be useful for certain tasks; **EFF** *Making more meaningful pictures, patterns and arrangements with shapes.	*Recalling the names of some 2D and 3D shapes; *Ordering and sorting according to simple properties; *Using the language of direction when programming toys.	*Create and describe patterns; *Explore characteristics of everyday objects and shapes and use mathematical language to describe them; *Use money with increasing confidence.

Little Bowden Primary School maths long term plan

Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Autumn	NPV-1 backwa numbe to 20 v compa	cr: Place Value Count to and ards, beginning r NPV-2 Reaso within the linearing using < > unt numbers to unt in multiple entify and represent and and write in d words wen a number,	across 100, g with 0 or 1 on about the ar number sy and = o 100 in numes of twos, five esent number intations umbers to 10 umbers from	, or from any location of restem, includented and tensers using object of the 20 in rester to 20 in restriction.	y given numbers ing ects and als numerals	Number: Addition a 1NF-1 Develop flu facts within 10. 1AS-1 Compose nu partition numbers to recognising odd an 1AS-2 Read, write addition (+), subtrate addition (+), subtrate additive life contexts • add and subtrate to 20, including experiments on solve one-step subtraction, us representations such as 7 =	umbers to 1 to 10 into p and even num and interpretaction (-) an expressions act one-diging zero problems ting concretes, and missi	of from 2 parts, including the equations and equations and equations and equations and two-dig that involve are objects and	traction ts, and g containing symbols, ons to real- it numbers ddition and pictorial	Rec 3D diff kno tria pyr sim 1G sha to	cometry: Shape 1G-1 cognise common 2D and cognise presented in ferent orientations, and ow that rectangles, angles, cuboids and ramids are not always nilar to one another. i-2 Compose 2D and 3D apes from smaller shapes match an example, cluding manipulating apes to place them in rticular orientations. recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles] recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	or

Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Spring	• • • • • • • • • • • • • • • • • • • •		Number: Pla	ce Value (withir	<u>1 50)</u> M	<u>easurement:</u>	Measurement: Mass and					
	NPV-1_Co	unt to and a	across	(within 10) 1NF-1		NPV-1	<u>NPV-1</u>		ngth and Height	Volume		
	100, forwards and backwards, Develop fluency in addition and		Count to and across 100,									
	beginning with 0 or 1, or from subtraction facts within 10 1AS-2		forwards and backwards,				Compare, describe and solve					
	any given	number		Read, write and interpret equations		beginning w	rith 0 or 1, or fr	om		practical pro	blems for:	

NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =

- count numbers to 100 in numerals;
- count in multiples of twos, fives and tens
- identify and represent numbers using objects and pictorial representations
- read and write numbers to 100 in numerals
- read and write numbers from 1 to 20 in numerals and words
- given a number, identify one more and one less

containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts 1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts

- add and subtract one-digit and two-digit numbers to 20, including zero
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □-9

any given number NPV-2
Reason about the location of
numbers to 20 within the linear
number system, including
comparing using <> and =

- count numbers to 100 in numerals;
- count in multiples of twos, fives and tens
- identify and represent numbers using objects and pictorial representations
- read and write numbers to 100 in numerals
- read and write numbers from 1 to 20 in numerals and words
- given a number, identify one more and one less

Compare, describe and solve practical problems for:

- lengths and heights Measure and begin to record:
- lengths and heights

- mass/weight
- capacity and volume
 Measure and begin to record:
- mass/weight
- capacity and volume

Year 1	1	2	3	4	5	6	7	8	9	10	11	12
Summer	Number:	<u>Multiplica</u>	ation .	Number: F	-ractions	Geometry: Shape	Number: Pla	ce Value (within	Measurement: Money	Measurem	ent:	Consolidation
	and Divis	ion 1NF-	<u>2</u>			1G-1 Recognise	100) NPV-1	_Count to and		<u>Time</u>		
				recog	nise, find	common 2D and	across 100,	forwards and	 recognise and 			
	Count for	wards ar	<u>id</u>	and n	ame a	3D shapes	backwards,	beginning with	know the value of	Compare,	describe	
	backward	<u>ls in mult</u>	<u>iples</u>	half a	s one of	presented in	O or 1, or fr	om any given	different	and solve	practical	
	of 2, 5 ar	<u>nd 10, up</u>	to 10	two e	qual	different	number NP\	/-2 Reason	denominations of	problems	for:	
	multiples	, beginnii	<u>ng</u>	parts	of an	orientations, and	about the lo	cation of	coins and notes	• time	Measure	
	with any	<u>multiple,</u>	<u>and</u>	objec	t, shape	know that	numbers to	20 within the		and b	egin to	
	count for	<u>wards an</u>	<u>d</u>	or qua	•	rectangles,	linear numb	er system,		record	d:	
	backward	<u>ls throug</u>	<u>h the</u>		·	triangles, cuboids	including co	mparing using <				
	odd num	bers.				and pyramids are	> and =	-				

	solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	recognise, find and name a quarter as one of four equal parts of an object, shape or quantity recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	not always similar to one another. 1G-2_Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. • describe position, direction and movement, including whole, half, quarter and three-quarter turns	 count numbers to 100 in numerals; count in multiples of twos, fives and tens identify and represent numbers using objects and pictorial representations read and write numbers to 100 in numerals read and write numbers from 1 to 20 in numerals and words given a number, identify one more and one less 		time (hours, minutes, seconds)	
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Year 2	1	2	3	4	5	6	7	8	9	10	11	12	
Autumn	Number:	<u>Place Va</u>	ue 2NP\	<u>/-1</u>	Number:	Addition and Sub	traction 2NF-1			Geometry: Shape 2G-1			
, accumin	Recognis digit in to compose numbers standard Reason a two-digit number s identifyin multiple o	e the pla wo-digit i and decousing sta partition bout the number system, in g the pre of 10. t in steps 0, and in	ce value numbers ompose andard a ing. 2NF location in the lirectuding evious are sof 2, 3, at tens from	of each , and two-digit nd non- V-2 of any near ad next	Secure flupractice 2 applying or only to applying two-digit add a ment two to solve picto	uency in addition at 2AS-1 Add and surelated one-digitens to/from a two-related one-digitenumbers and subtract numbers at two-digit numbers are problems with actival representation	and subtraction far albtract across 10 addition and subtraction and subtractions, including those	acts within 10, through of 2AS-3 Add and subtract raction facts: add and subtract we raction facts: add and subtract we raction facts: add and subtract we objects, pictorial represents ones a two-digit numbers action: using concrete objection: using concrete objections using concrete objections using concrete objections are unabled to the property of the property	t within 100 by ubtract only ones rithin 100 by ubtract any 2 resentations, and imber and tens bjects and antities and	Recognise shapes prorientatio rectangles pyramids one anoth	e common 2l resented in d ns, and know s, triangles, o are not alwa ner. fy and descr erties of 2-D ling the num	D and 3D lifferent v that cuboids and sys similar to	

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read and write numbers to at	identify 2-D shapes on the
least 100 in numerals and in	surface of 3-D shapes, [for
words	example, a circle on a cylinder
identify, represent and estimate	and a triangle on a pyramid]
numbers using different	compare and sort common 2-D
representations, including the	shapes and everyday objects
number line	recognise and name common 3-D
recognise the place value of	shapes [for example, cuboids
each digit in a two-digit number	(including cubes), pyramids and
(tens, ones)	spheres]
compare and order numbers	compare and sort common 3-D
from 0 up to 100; use and =	shapes and everyday objects
signs	
use place value and number	
facts to solve problems	

Year 2	1	2	3 4	5	6	7	8	9	10	11	12
Year 2 Spring	Recognise structure answer qu "How man and subtrapplying addition a	e the subtraction of 'difference' and uestions of the form, ny more?" 2AS-4 Add ract within 100 by related one-digit and subtraction facts: subtract any 2 two-digit	Number: Mul Recognise re representing and calculating 10 multiplication problems who unknown to a	peated ad them with ng the pro tion tables ere the nu multiplicat or, and to c	and Division 2MD-1 dition contexts, multiplication equation duct, within the 2, 5 as. 2MD-2 Relate group mber of groups is ion equations with a division equations	ons Add apploing and subt	surement: Length and Hei	ght I	 choose and units to estilength/heig mass (kg/g) (litres/ml) to unit, using and measur compare an 	use appropriate and not in any distemperated the nearest ulers, scaleding vessels dorder lenacity and research and researc	oriate standard neasure rection (m/cm); ire (°C); capacity st appropriate s, thermometers
	for po	gnise and use symbols ounds (£) and pence (p); bine amounts to make a cular value	facts for	the 2, 5 and a cluding re	ciplication and division nd 10 multiplication ecognising odd and ev	en	temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rul scales, thermometers and measuring vessels		g · , ·		

coins	different combinations of s that equal the same unts of money		show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	compare and order lengths, mass, volume/capacity and record the results using >, < and	
pract addit mone	e simple problems in a stical context involving stion and subtraction of sey of the same unit, ading giving change	•	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (.), division (÷) and equals (=) signs solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication	=	

and division facts, including problems in

contexts

Summer Number: Fractions Measurement: Time	Statistics Ge	Secure of the Description and Discontinua	
 recognise, find, name and write fractions 1/3,1/4,2/4and 3/4of a length, shape, set of objects or quantity Recognise the equivalence of 2/4 and 1/2 write simple fractions for example, 1/2 of 6 = 3 compare and sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day 	 interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in 	order and arrange combinations of mathematical objects in patterns and sequence use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-	Consolidation

Year 3	1 2	3 4	5	6	7	8	9)	10	11	12
Autumn	Number: Place Value 3NPV-1		r: Addition	and Subtra	ction 3NF-1		N	<u>lumber: Multipl</u>	ication and Div	<u>vision (a) 31</u>	NF-2
	Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10 3NPV-2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning 3NPV-3 Reason about the location of any three-digit number in the linear number system, including identifying the previous an next multiple of 100 and 10 3NPV-2 Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4 5 and 10 equal parts • count from 0 in multiples of 4, 8 50 and 100; find 10 or 100 more or less than a given number identify, represent and estimate numbers using different representations • read and write numbers up to 1000 in numerals and in words • recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • compare and order numbers up to 1000 solve number problems and practical problems involving these ideas	through 2 Add a 3AS-3 I relation the part propert subtrace add nur nur add writ solve pi facts, pi	n continued and subtrace Manipulate iship betwee t-part-who by of addition d and subtrace mber and omber and he d and subtrace tten metho roblems, in	I practice 3, ct up to three the addition one structure on, and und ract number ones a three undreds ract number ds of columnicluding mis	ee-digit numbers use relationship: Understand and subtraction, b. Understand and derstand the related are mentally, includited in the control of the control	nplements to 100 sing columnar met lerstand the inversand how both relatuse the commutation property for a three-digit tens a three-digit digits, using formal subtraction lems, using number	3AS- fathods reference for the total father	the 3, 4 and write and camultiplication tables that the numbers time progressing solve problem involving many positive interpretation.	5, 2, 4 and 8 acts in these m corresponding ation and division artitive division are multiplicated 8 multiplicated alculate mather on and division they know, includes one-digit in to formal writ	multiplication ultiplication unumber 3I ion facts to rent structu on and divis on tables matical state using the r uding for to umbers, us ten method missing nur d division, i oblems and	on tables, and tables as MD-1 Apply solve tres, including sion facts for multiplication wo-digit ing mental and is mber problems, including

Year 3	1 2 3	3 4	5	6	7	8		9	10		11	12	
Year 3 Spring	Number: Multiplication and Division (b) 3NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10) 3MD-1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division	Meas • r • (measure, comp subtract: lengt kg/g); volume,	gth and Perimeter	Apply and r 10) 3 repredivide location number 10	per: Fraction place-vanultiplicate F-1 Interped into econo of any per system ount up a penths aris	tive number fa pret and write several parts qual parts 3F-3 fraction within and down in te e from dividin	e to known additive acts (scaling facts by proper fractions to of a whole that is 3 Reason about the in 1 in the linear enths; recognise that ag an object into 10	• n	neasure, d ubtract: le	Mass ar	12 nd Capacity e, add and m/cm/mm); ne/capacity	
	 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods 				nn • ro d nn • ro fi d • ro fi fi fi	umbers of ecognise, iscrete se on-unit frecognise ractions a enominate ecognise quivalent ompare a ractions w	et of objects: uractions with sand use fractiond non-unit from the sand show, using fractions with and order unit with the same of	y 10 e fractions of a unit fractions and small denominators ons as numbers: unit ractions with small ng diagrams, n small denominators fractions, and					

Year 3	1 2	3 4	5 6 7	8 9	10 11	12
Summer	Number: Fractions (b) 3F-2 Find unit fractions of quantities using known division facts (multiplication tables fluency) 3F-4 Add and subtract fractions with the same denominator, within 1 • add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]] • solve problems that involve the above	Measurement: Money 3AS-1 Calculate complements to 100 3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part— part—whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction • add and subtract amounts of money to give change, using both £ and p in practical contexts	• tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight • know the number of seconds in a minute and the number of days in each month, year and leap year • compare durations of events [for example to calculate the time taken by particular events or tasks]	Geometry: Shape 3G-1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations 3G-2 Draw polygons by joining marked points, and identify parallel and perpendicular sides • draw 2-D shapes • make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • recognise angles as a property of shape or a description of a turn • identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle • identify horizontal and vertical lines and pairs of perpendicular and parallel lines	• interpret and present data using bar charts, pictograms and tables • solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	Consolidation

Year 4	1	2	3	4	5	6	7	8		9	10	11	12
Autumn	Know the and that to idention other for the place and commusing stars and commusing stars are counting 1,000 in scales/n with 2, 4 • courting courting identical of the courting one courting identical order order courting in the courting in the courting identical order c	at 10 hundred 1,000 is 10 fy and work ur-digit multiple evalue of each and	reds are equivored times the size out how many tiples of 100 dach digit in for ecompose four non-standard location of any system, including the first of each 4 and 10 equal property of each 4 and estimated in the equal parts are the end estimated to 100 the numeral system of the end estimated estimated estimated end estimated	alent to 1 thousand, ze of 100; apply this y 100s there are in 4NPV-2 Recognise ur-digit numbers, r-digit numbers partitioning 4NPV-1 four-digit number ding identifying the 20 and 100, and NPV-4 Divide parts, and read altiples of 1,000 to include (I to C) and know extem changed to and place value a given number each digit in a four-dreds, tens, and	Num	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	m cc p re (ii ss cc m fi re sl	easure and alculate the erimeter of a ectilinear figure ncluding quares) in entimetres and etres and the area of ectilinear napes by bunting quares	Recall r 12 and tables a 4NF-2: dividen remaind approp Apply r and mu 100) 4! division the con co rec mu us mu mu mu e rec	multiplication and recognise production and one-digital and one-digital and one-digital according place-value know a litiplicative numbers and multiplication tables and multiplication tables all multiplication tables are place value, know a litiply and divide a litiply and divide a litiplying by 0 are litiplying together ognise and use multiplication in multiplication tables are place value, know a litiply and divide a litiply and divide a litiply and divide a litiply and the litiply and t	and Division (and division facts ucts in multiplication follows, with the tolers, with the context widedge to know the facts (scaling the multiplication of 6, 7, 9, 25 and division facts up to 12 x 12 and division facts up to 12 x 12 and dividing the tolers, including the tolers of the tolers and the tolers of the tolers and	up to 12 x cation ng number wo-digit involve t 4NF-3 n additive g facts by n and d apply ation and 1000 acts for 2 ed facts to ding: y 1; rs	Consolidation

Mathematics Progression Map
School

recognise and use factor pairs and commutativity in mental calculations

multiply two-digit and three-digit numbers by a one-digit number using formal written layout

solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder

correspondence problems such as n objects are connected to m

objects

Year 4	1 2	3 4	5 6	7	8 9	10	11 12
Summer	Number: Decimals	Measurement: Money	Measurement: Time	Consolidation	Geometry: Shape 4G-1	<u>Statistics</u>	Geometry: Position
	(b)						and Direction
		• estimate, compare and	 Convert between 		Draw polygons, specified by		
	count up and	calculate different measures,	different units of		coordinates in the first quadrant,	interpret and	 describe positions
	down in	including money in pounds	measure [for example,		and translate within the first	present	on a 2-D grid as
	hundredths;	and pence	kilometre to metre;		quadrant 4G-2 Identify regular	discrete and	coordinates in the
	recognise that		hour to minute]		polygons, including equilateral	continuous	first quadrant
	hundredths arise		• estimate, compare		triangles and squares, as those in	data using	• describe
	when dividing an		and calculate different		which the side-lengths are equal	appropriate	movements between
	object by one		measures		and the angles are equal. Find the	graphical	positions as
	hundred and		read, write and		perimeter of regular and irregular	methods,	translations of a
	dividing tenths by		convert time between		polygons 4G-3 Identify line	including bar	given unit to the
	ten		analogue and digital		symmetry in 2D shapes presented	charts and	left/right and
	recognise and		12-and 24-hour clocks		in different orientations. Reflect	time graphs	up/down
	write decimal		 solve problems 		shapes in a line of symmetry and	• solve	 plot specified
	equivalents of any		involving converting		complete a symmetric figure or	comparison,	points and draw
	number of tenths		from hours to minutes;		pattern with respect to a specified	sum and	sides to complete a
	or hundredths		minutes to seconds;		line of symmetry	difference	given polygon
	• recognise and		years to months; weeks		a compare and closeif, geometric	problems	
	write decimal		to days		• compare and classify geometric shapes, including quadrilaterals	using information	
	equivalents to				and triangles, based on their		
	14,12,34 ● round decimals				properties and sizes	presented in bar charts,	
					• identify lines of symmetry in 2-	pictograms,	
	with one decimal place to the				D shapes presented in different	tables and	
	nearest whole				orientations	other graphs	
	number				• identify acute and obtuse angles	other graphs	
	• compare				and compare and order angles up		
	numbers with the				to two right angles by size		
	same number of				• identify lines of symmetry in 2-		
	decimal places up				D shapes presented in different		
	to two decimal				orientations		
	places				• complete a simple symmetric		
	• solve simple				figure with respect to a specific		
	measure and				line of symmetry		
	money problems						
	involving fractions						

Little Bowden Primary

and decimals to			
two decimal places			

Year 5	1	2	3	4	5	6	7	8	9	9	10	11	12		
Autumn	Number:	Place Valu	i <u>e</u>	Number: Addit		Number: Mu	tiplication and	Division (a) 5NF-1		Number: Fra	actions (a) 5F-	2			
				and Subtractio	<u>on</u>										
	• interpre	et negative	e numbers in					tion table facts, and		Find equivalent fractions and understand that they					
	context			 add and sub 			corresponding division facts, through continued				have the same value and the same position in the				
		• round any number up to 1 000			s with		practice 5NF-2 Apply place-value knowledge to			linear number system					
			10, 100, 1000,	more than 4 d		known additive and multiplicative number facts								_	
		ınd 100 0		including using			(scaling facts by 1 tenth or 1 hundredth) 5MD-1				ame and write				
			oblems and	formal written				s by 10 and 100;			on, represente	d visually, iı	ncludin	g tenth	
			that involve all	methods (colu	mnar			nt to making a nun		and hundre					
	of the abo			addition and				or 1 tenth or 1 hund			mixed numbe			ions and	
			r backwards in	subtraction)				factors and multipl	_		n one form the				
			10 for any	• add and sub				cluding common fac			al statements		xed nu	mber [t	
			1 000 000	numbers ment			of 2 or 3 facto	l express a given n			5+4/5=6/5=				
			nd backwards	with increasing	-	as a product	OI Z OI 3 Iacit	ors .			and order frac		aenor	ninators	
			egative whole	large numbers • solve addition		• identify my	ultiples and fac	tors, including findi		are all multiples of the same number					
			through zero			_		nd common factors	7	 add and subtract fractions with the same denominator and denominator that are multip 					
			r and compare)	subtraction multi-step problems in contexts,		numbers	or a mumber, ar	ia common factors	-	same numb					
			: 1 000 000 value of each	deciding which operations and		use the vocahi	lary of prime numb		 multiply proper fractions and mixed numbers be 						
								-							
			numerals to gnise years	methods to us		prime factors and composite (non-prime) numbers • establish whether a number up to 100 is prime and				whole numbers, support by materials and diagram				agram	
		Roman n		why	o and		numbers up to		ic and						
	written in	Noman m	umerais	• solve proble	ms			numbers and cube	e						
				involving addit				for squared (2) and							
				subtraction,	,	(3)		ioi squarea (E) and	a cabca						
				multiplication a	and		ımbers up to 4	digits by a one-or	two-						
				division and a				I written method,							
				combination of				n for two-digit num	nbers						
				including	,			ers mentally drawi							
				understanding	the	upon known		,	9						
				meaning of the				ligits by a one-digit	t l						
				equals sign				ritten method of sh							
			'				inders appropriatel								
					the context		,								
						multiply and divide whole numbers and those									
							cimals by 10, 1								
1	1			1			<u>, </u>		I.						

Mathematics Progression Map School		Little Bowden Primary
	 solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates 	

Year 5	1 2	3	4	5	6	7	8	9	10	11	12
Spring	Number: Multiplica	tion and	Number: Fract	ions (b)	Number: Decim	nals and Percent	ages 5NPV-1 Know	Measure: P	erimeter and Area	<u>Statistics</u>	
	Division (b) 5NF-1		<u>5NF-1</u>	• •	that 10 tenths	are equivalent t	o 1 one, and that 1 is	<u>5G-2</u>			
	, ,					10 times the size of 0.1. Know that 100 hundredths					nterpret and
	Secure fluency in m	nultiplication	Secure fluency	/ in	are equivalent	to 1 one, and th	nat 1 is 100 times the	Compare a	reas and calculate		construct simple
	table facts, and cor	responding	multiplication	table	size of 0.01. Know that 10 hundredths are			the area of	rectangles		pictograms, tall
	division facts, thro	division facts, through continued			equivalent to 1 tenth, and that 0.1 is 10 times the			(including s	squares) using		charts, block
	practice 5MD-3 Mu	ultiply any whole	corresponding	ı	size of 0.01 5NPV-2 Recognise the place value of			standard units		diagrams and	
	number with up to	number with up to 4 digits by any				umbers with up	to 2 decimal places,			l l	tables
	one-digit number u		through contin	through continued			numbers with up to 2	• convert b	oetween different		ask and answer
	written method 5M					using standard	and non-standard	units of me	etric measure	-	simple question
	number with up to	4 digits by a					bout the location of	• understa	nd and use		by counting the
	one-digit number u	using a formal	quantities		any number wi	th up to 2 decir	nals places in the	approximat	te equivalences		number of
	written method, an		·				<u>a identifying the</u>		etric units and		objects in each
	remainders approp		• add and sub	otract		ext multiple of		common im	nperial units such as	I	category and
	context	•	fractions with				h. 5NPV-4 Divide 1		unds and pints		sorting the
			same denomir	nator	into 2, 4, 5 and	d 10 equal parts	s, and read		our operations to	I	categories by
	 multiply numbers 	s up to 4 digits	and denomina	itors	scales/number	lines marked in	units of 1 with 2, 4, 5		oroblems involving re [for example, length,		quantity
	by a one-or two-die		that are multip	oles of	and 10 equal p	oarts 5NF-2 App	oly place-value				ask-and-answer
	a formal written me	the same num	ber	knowledge to l	known additive	and multiplicative		s, volume, money] using	1	guestions abou	
	long multiplication	 multiply pro 	per	number facts (scaling facts by 1 tenth or 1				tation, including	I	totalling and	
	numbers				hundredth) 5F-	-3 Recall decima	d fraction equivalents		scaling		comparing
	multiply and divident	de numbers				nd for multiples of	measure and calculate the		categorical data		
	mentally drawing u		numbers, supp		these proper fractions			perimeter of composite		.atcgorical date	
	• divide numbers u		by materials a					rectilinear s			
	a one-digit number		diagrams		• read and wri	te decimal numl	pers as fractions [for		s and metres		
	formal written meth	•			example, 0.71		•		and compare the		
	division and interp	ret remainders			• recognise an	d use thousand	ths and relate them to		tangles (including		
	appropriately for th					dths and decima			nd including using		
	• •multiply and div				·		imal places to the		nits, square		
	numbers and those						one decimal place		s (cm2) and square		
	decimals by 10, 10						are numbers with up		2) and estimate the		
	• solve problems in				to three decima				gular shapes		
	multiplication and					•	ol (%) and understand		volume [for		
	including using the					elates to 'numbe			sing blocks to build		
	factors and multiple						es as a fraction with		nd capacity [for		
	cubes	,quai uiid				00, and as a de		example, us			
		solve problems involving						Champie, us	sing water]		
		multiplication and division,			• solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5						
	indicipileation and t	multiplication and division,			and decimal ed	u. vaiciilis Oi 1/2	-, 1, 1, 1,5, 2,5, 7,5	<u> </u>		<u> </u>	

Mathematics Progression Map

Little Bowden Primary
School

including scaling by simple	and those fractions with a denominator of a multiple	
fractions and problems involving	of 10 or 25	
simple rates		
solve problems involving		
addition, subtraction, multiplication		
and division and a combination of		
these, including understanding the		
meaning of the equals sign		

Year 5	1	2	3	4	5	6	7	8	9	10	11	12
Year 5 Summer	Compare a and measu degrees (° of a given • distinguiregular ampolygons be reasoning and angles related factorissing leterated factorissing leterated factorissing leterated factorissing leterated factorissing leterated factorissing leterated factorism and angles related factorism including a cuboids, for representations and a factorism including a cuboids, for representations and a factorism including a cuboids, for representations and a factorism including	angles, esure angle angles, esure angle and dra size ish betwee d irregula based on about ec s. propertie to deduct ts and fin ngths and 3-D shap cubes and rom 2-D	G-1 stimate s in w angles een ar qual sides es of ce nd d angles pes,	Geometry: Positi Direction • know angles at in degrees: estin compare acute, or reflex angles • draw given an measure them in • identify: angle and one whole to 360°) angles at straight line and (total 180°) other of 90° • identify, descripted the position, used appropriate langles know that the ship changed	are measured mate and obtuse are a point curn (total a point on a l ½ a turn er multiples obsition of a a reflection sing the guage, and	Multiply and of 10 and 100; equivalent to 10 or 100 tintenth or 1 hursize • read and winumbers as frexample, 0.71 • recognise a thousandths at tenths, hundre equivalents • round decimal place whole numbed decimal place whole numbed decimal place or read, write, compare num three decimal • use all four solve problem	livide numbers by understand this as making a number nes the size, or 1 ndredth times the lite decimal actions [for = 71/100] and use and relate them to edths and decimal hals with two is to the nearest rand to one lorder and bers with up to places operations to	Negative Nu count forw backwards is powers of 1 given numb OOO OOO count forw backwards whole numb including the count forw backwards whole numb including the country of the	wards or in steps of 0 for any er up to 1 wards and with d negative pers,	Measure: Converting 5NPV-5 Convert between us measure, including common decimals at a convert between units of metric measure understand and us approximate equivals between metric unicommon imperial us inches, pounds and use all four operasolve problems investing measure [for examplemass, volume, mondecimal notation, inscaling solve problems in converting between	mits of using and fractions. different sure use alences ts and nits such as pints ations to olving ole, length, ey] using acluding	Measure: Volume • convert between different units of metric measure • understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • use all four

S	chool		•	
				rectilinear
				shapes in
				centimetres
				and metres
				calculate
				and compare
				the area of
				rectangles
				(including
				squares) and
				including
				using standard
				units, square
				centimetres
				(cm2) and
				square metres
				(m2) and estimate the
				area of
				irregular
				shapes
				• estimate
				volume [for
				example,
				using blocks
				using blocks to build
				cuboids] and
				capacity [for
				example,
				using water]

Little Bowden Primary

Mathematics Progression Map

Year 6	1 2	3 4	5	6	7	8	9	10	11	12
Autumn	Number: Place Value	Number: Additio			lication and	6F-1 Recognise wh		Number: Fractions (b)		Measure:
Addinii	Namber: Flace Value	Division 6AS/MD				fractions can be	<u>icii</u>	Divide powers of 10,		Converting
	6NPV-1 Understand the relationship	multiplicative cal				simplified, and use		hundredth to 10 million		Units
	between powers of 10 from 1				roperties, inverse	common factors to		2, 4, 5 and 10 equal		<u> </u>
	hundredth to 10 million, and use	relationships, an				simplify fractions 6		read scales/number li		• solve
	this to make a given number 10,	<u> </u>	и р.и		<u></u>	Express fractions in		labelled intervals divid		problems
	100, 1,000, 1 tenth, 1 hundredth or	• perform menta	ıl calc	culations, includi	na with mixed	common denomina		2, 4, 5 and 10 equal		involving the
	1 thousandth times the size	operations and I				and use this to				calculation and
	(multiply and divide by 10, 100 and	use their know			operations to	compare fractions	that	add and subtract fra	actions	conversion of
	1,000) 6NPV-2 Recognise the place	carry out calcula				are similar in value	6F-	with different denomin	nators	unit of
	value of each digit in numbers up to	• solve addition				3 Compare fraction	<u>ıs</u>	and mixed numbers, u	ising the	measure, using
	10 million, including decimal				s and methods to	with different		concept of equivalent	fractions	decimal
	fractions, and compose and	use and why	J	•		denominators, inclu	<u>uding</u>	• multiply simple pair	s of	notation u to 3
	decompose numbers up to 10	• identify comm	on fac	ctors, common n	nultiples and	fractions greater th	<u>an 1,</u>	proper fractions, writing		d.p. where
	million using standard and non-	prime numbers			•	using reasoning, ar	<u>nd</u>	answer in its simplest	form [for	appropriate
	standard partitioning 6NPV-3	use estimation	to cl	heck answers to	calculations and	<u>choose between</u>		example, 1/4×1 /2=1,	/8]	• use, read,
	Reason about the location of any	determine, in the	cont	text of a probler	n, an appropriate	reasoning and com	<u>mon</u>	 divide proper fraction 	ons by	write an
	number up to 10 million, including	degree of accura		•		denomination as a		whole numbers [for ex	kample	convert
	decimal fractions, in the linear	• multiply multi-	digit	numbers up to	4 digits by a two-	comparison strateg	I y	1/3÷2=1/6]		between
	number system, and round numbers,	digit whole num	ber u	sing the formal v	written method of	_				standard units,
	as appropriate, including in contexts	long multiplication	on	_		 use common fact 				converting
	6NPV-4 Divide powers of 10, from 1	 divide number 	s up	to 4 digits by a	two-digit whole	to simplify fractions				measurements
	hundredth to 10 million, into 2, 4, 5	number using th	e for	mal written meth	od of long	use common multip				of length,
	and 10 equal parts, and read	division, and inte	erpret	t remainders as	whole number	to express fractions				mass, volume
	scales/number lines with labelled	remainders, fract	ions,	or by rounding,	as appropriate	the same denomina				and time from
	intervals divided into 2, 4, 5 and 10	for the context				• compare and ord				a smaller un of
	equal parts				two-digit number	fractions, including				measure to a
	a wood wwite (ander and assumes)	using the formal				fractions > 1				larger unit, and
	• read, write, (order and compare)	where appropria	te, in	terpreting remai	nders according	add and subtract				vice versa,
	numbers up to 10 000 000 and determine the value of each digit	to the context				fractions with differ	rent			using decimal
	•	 perform menta 			ng with mixed	denominators and	•			notation to up
	• (read, write), order and compare	operations and I				mixed numbers, us	ing			to 3 d.p.
	numbers up to 10 000 000 and determine the value of each digit	• solve problem			subtraction,	the concept of				convert between miles
	• round any whole number to a	multiplication an				equivalent fractions				
	required degree of accuracy	use their know				multiply simple p of proper fractions				and kilometres
	required degree of accuracy	carry out calcula	tions	involving the fo	ur operations	of proper fractions				• use, read, write an
						writing the answer	III ILS			write an

_ittle Bowd	len	Prim	ary	

 use negative numbers in context, 	simplest form [for	convert
and calculate intervals across zero •	example,1/4×1/2=1/8]	between
solve number and practical problems	divide proper	standard units,
that involve all of the above	fractions by whole	converting
	numbers [for example	measurements
	1/3÷2=1/6]	of time from a
	_	smaller unit of
		measure to
		larger unit, and
		vice versa

multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number) 6AS/MD-3 Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts multiplicative relationships restricted to multiplicative relationships restricted to multiplication by a whole number) 6AS/MD-3 Solve problems involving the relative sizes of two quantities where missing values can be found division facts multiplicative and multiplicative relationships restricted to multiplication by a whole number) of sample formulae o generate and describe linear number sequences o express missing number problems algebraically o identify the value of each digit in numbers given to three decimal places o associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 38] o recall and use equivalences between simple fractions, decimals and percentages, including in different contexts o associate a fraction with division and calculate decimal fraction equivalents [for example, 38] o recall and use equivalences between simple fractions, decimals and percentages, including in different contexts o express missing number problems of each digit in numbers given to three decimal places o associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 38] o recall and use equivalences between simple fractions, decimals and percentages, including in different contexts o express missing number problems of each digit in numbers given to three decimal places o associate a fraction with division and calculate decimal fraction equivalences between simple fractions, decimals and percentages, including in different contexts of each digit in or and division and division and indivision and problems of each of the mean as are and volume of shapes o calc	8 9 10 11 12	7	6	4 5	3	2	1 2	Year 6
comparison • solve problems involving similar shapes where the scale factor is known or can be found • solve problems involving unequal sharing and grouping using knowledge of fractions and multiples satisfy an equation with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 38] • recall and use equivalences between simple fractions, decimals	Measure: Area, Perimeter and Volume 6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems The recognise that shapes with the same areas can have different perimeters and vice versa The recognise when it is possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3), and extending Measure: Area, Perimeter and Volume of interpret and construct pie charts and line graphs and use these to solve problems The interpret and construct pie charts and line graphs and use these to solve problems The interpret and construct pie charts and line graphs and use these to solve problems The interpret and construct pie charts and line graphs and use these to solve problems The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret the mean as an average The calculate and interpret and construct pie charts and line graphs and use these to solve problems The calculate and interpret and construct pie charts and line graphs and use these to solve problems The calculate and interpret and construct pie charts and line graphs and use these to solve problems The calculate and interpret and construct pie charts and interpret and interpret and interpret	associate a division and carried equivalent equivalent example, 0.37 fraction [for example, or ex	per: Decimals 7-4 Divide rs of 10, from ndredth to 10 n, into 2, 4, 5 10 equal parts, ead s/number lines labelled rals divided into 5 and 10 equal Intify the value ch digit in lers given to decimal places ociate a on with division laculate lacu	Intervent of each on with an knowns of each on with an and caracte and and caracter and caracte	Number Algebra Algebra GAS/M proble unknown of the use of the unknown of the use of the unknown of the use of the unknown of the unknown of the use of the unknown of the use of the unknown of the unkno	that 2 numbers can be tively or ely, and quantify I multiplicative (multiplicative) is (multiplicative) is (multiplicative) is restricted to en by a whole number) Solve problems tio relationships elems involving the sof two quantities and values can be found eger multiplication and is elems involving the use of percentages for elems involving similar re the scale factor is an be found elems involving ring and grouping	Number: Ratio 6 Understand that related additive multiplicatively, additive and mu relationships (m relationships res multiplication by 6AS/MD-3 Solve involving ratio r • solve problem relative sizes of where missing v by using integer division facts • solve problem calculation/use of comparison • solve problem shapes where the known or can be solve problem unequal sharing using knowledg	

Year 6	1 2	3 4	4	5	6	7	8	9	10	11	12	
Year 6 Summer	Geometry: Shape 6G-1 Draw, compose, and decompshapes according to given propertincluding dimensions, angles and and solve related problems • draw 2-D shapes using given dimensions and angles • compare and classify geometr shapes based on their propertisizes • illustrate and name parts of cincluding radius, diameter and circumference and know that the diameter is twice the radius • recognise, describe and build 3-D shapes, including making • find unknown angles in any triquadrilaterals, and regular pole • recognise angles where they ma point, are on a straight line evertically opposite, and find me	pose ties, area, * pose ties, area, * pose ties, go from controles, lithe ssimple nets iangles, lygons neet at or are * pose pose pose pose pose pose pose pose	Geometry: Position and Direction describe positions on the full coordinate grid (all four quadrants) Draw and cranslate simple shapes on the coordinate plan, and reflect them in the axes		_	7 nsolidation and	8 problem solving	9	10	11	12	

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