



Maths at St Columb Minor

What are the aims?

INTENT

At St Columb Minor, Mathematics is a fundamental part of each day. We believe that Maths teaches us how to make sense of the world around us. We aim to provide children with the skills in order to develop the ability to calculate, to communicate, to reason and to solve problems; this enables them to explore, understand, and appreciate relationships and patterns in both number and shape in their everyday life. We wish to promote enjoyment and enthusiasm for learning through practical activity, cross-curricular learning, exploration, and discussion.

We deliver the teaching and learning for maths by following the **small steps** outlined in **White Rose 3.0**. We believe all children can achieve in mathematics, and we teach for secure and deep understanding of mathematical concepts through manageable steps. Most children will be taught the content from their year group only. We aim for children to become true masters of content, applying and being creative with new knowledge in multiple ways.

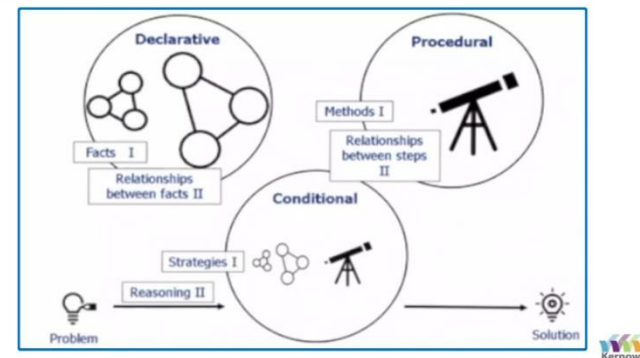
At St Columb Minor, we ensure that all children access an ambitious and aspiring curriculum whilst there is equity in our offer for all pupils to secure their factual (declarative) knowledge – introduced as **"I know that"** and refers to facts and formulae, and the relationship between facts.

Teachers model how to make links between the relationships of steps in the methods they use (procedural knowledge) - introduced with **"I know how"** - and the principles underpinning them.

Teachers will also model the strategies that can be used to apply prior learning to reason and solve problems (conditional knowledge) - this can be introduced with **"I know when"**. This extends to combinations of declarative and procedural knowledge which then become strategies for particular types of problems.

As a school, we have adopted the Chris Moyle 'I Do, We Do, You Do' approach. Pupils' learning is scaffolded with a gradual release from teacher instruction to independent learning as a lesson progresses.

The categories of knowledge





Maths at St Columb Minor - What does a typical maths lesson look like?

Number Facts

5 mins

This will be linked to the number facts focus for the half term and previously learnt

KS1 - Number bond/ facts activities e.g. number fans, missing numbers, counting sticks, counting with actions

KS2 - Times tables practice e.g. chanting tables, times table games, Daily 10 (TOPMARKS)

Get Ready

10 mins

5 warm up questions – based upon teacher assessment. Revise a single skill.

Here the **declarative** and the **procedural** link – **I KNOW HOW**

Provide a star challenge for pupils working confidently.

New Content

I do, we do,
you do

10 mins

Share the WALT for the lesson. Vocab- no more than 4 key words (as reading)

Model and gradual release of responsibility. I do, we do, you do approach

Children who are confident in the concept can have responsibility and withdraw quickly whilst others may need support from class teacher or TA.

Class teacher/ TA may become the resource for adapting according to need whilst the other may helicopter the room checking in and live marking.



Learning Task

30 mins

Children should work towards the same outcome.

Learning should be adapted according to need - this could include scaffolding the task or deepening the learning.

All children must have the opportunity to apply their conditional knowledge throughout a unit.

Assessment Task

5 mins

Use of a specific question or True / False Q / Odd one out / Prove it to determine who has understood the learning and who may need further support.

Conditional knowledge – **I KNOW WHEN** – to be taught at a later date when the DECLARATIVE and PROCEDURAL has been embedded in the long-term memory.

White Rose materials are used to support resources and body of knowledge.



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KIRFS (Key Instant Recall Facts) Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	I can say the numbers from 0 to 5 and back from 5 to 0 in order.	I can say the numbers from 0 to 10 and back from 10 to 0 in order.	I can read and write numbers to 5 in numerals.	I can partition numbers to 5 into two groups.	I can count, read and write numbers to 10 in numerals.	I can partition numbers to 10 into two groups.
Year 1	I know number bonds for each number to 6.	I know number bonds to 10 (+ and -).	I know one more or one less than numbers to 20.	I know doubles of numbers to 10.	I know halves of numbers to 10.	I can count in 2s.
Year 2	I can count, read and write numbers to 100 in numerals.	I know number bonds for each number to 20.	I know doubles and halves of numbers to 20.	I know the multiplication and division facts for the 10 times table.	I know multiplication and division facts for the 5 times table.	I know the multiplication and division facts for the 2 times table.
Year 3	I can count in multiples of 4, 8, 50 and 100.	I can find 10 or 100 more or less than a given number.	I know number bonds to 100.	I know the multiplication and division facts for the 4 times table.	I know multiplication and division facts for the 8 times table.	I know multiplication and division facts for the 3 times table.
Year 4	I know multiplication and division facts for the 6 and 9 times tables.	I know multiplication and division facts for the 7 and 11 times tables	I know multiplication and division facts for the 12 times tables.	I know the multiplication and division facts for all times tables up to 12×12 .	I can multiply and divide single-digit numbers by 10 and 100.	I can recall decimal equivalents of fractions.
Year 5	I can round numbers to 1 million to the nearest 10, 100 and 1,000.	I can recall square numbers up to 122 and their square roots.	I know the first 5 cube numbers.	I can identify prime numbers up to 50.	I can identify multiples and factors up to 12×12 .	I can read and write decimal numbers as fractions.
Year 6	I can count in powers of 10, forwards and backwards with numbers to 10 million.	I can identify common factors of a pair of numbers.	I can find fractions of amounts.	I know common fraction, decimal and percentage equivalences.	I can divide and multiply by 10, 100 and 1,000.	I can find simple percentages of amounts (1%, 5%, 10% etc).



Declarative activities at St Columb Minor

	Monday	Tuesday	Wednesday	Thursday	Friday
KS1	Counting with actions	Counting stick	Chanting - times tables, number bonds	Class finger games - number bonds, tables	Partner challenge - stick em up times tables, number bonds
KS2 Times tables	Chanting times tables - always table number second e.g. 1×2 is 2/ 2×2 is 4	Times table games - ping pong game	Chanting times tables	Whiteboard show me activity	Times table application - e.g. quiz



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Early Years Foundation Stage

Year Group	Autumn Term	Spring Term			Summer Term
Reception	Mastering Number: Subitising Subitise (recognise quantities without counting) Identify smaller numbers within a number (conceptual subitising)				In this half-term, the children will consolidate their understanding of concepts previously taught through working in a variety of contexts and with different numbers.
	Mastering Number: Cardinality, ordinality and counting Say number words in sequence. Count objects in irregular arrangements. Count objects from a larger group. Link the number symbol (numeral) with its cardinal number value. Match numeral to quantity. Recognise amounts that amounts that have been rearranged remain the same, if nothing has been added or taken away (conservation).				
	Mastering Number: Composition Partition a number in a range of ways and identify that the pairs of numbers make the same total. Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Understand that group that has been partitioned can be recombined to make the same total. Understand that a number can be partitioned into more than two groups. Understand how many things are hidden from a known quantity.				
	Mastering Number: Comparison Compare collections and talk about which group has more or less things. Check that groups are equal by matching on a one-to-one basis. Say which number is larger by counting or matching one-to-one. Compare numbers that are far apart, near to and next to each other. Say when a number does not match a quantity. Recognise that if they add one they will get the next number and if they subtract one they will get the previous number.				
	<u>Getting to Know You</u> Key times of the day, class routines. Exploring the continuous provision inside and out.	<u>It's Me 1,2,3</u> Representing 1,2,3 Comparing 1,2,3 Composition of 1,2,3	<u>Alive in 5</u> Introducing zero Comparing numbers to 5. Composition of 4 & 5.	<u>Building 9 & 10</u> 9 & 10 Comparing numbers to 10	<u>To 20 and Beyond</u> Building numbers beyond 10 Counting patterns beyond 10
Where do things belong?	Circles & triangles		Bonds to 10		



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		Positional language.	Positional language	Compare Mass (2) Compare Capacity (2)		Spatial Reasoning (1) Match, Rotate, Manipulate	Spatial Reasoning (3) Visualise and Build
		Just Like Me Match & sort. Exploring pattern.	Light & Dark Representing numbers to 5	Growing 6,7,8 6, 7 & 8 Making pairs		First, Then, Now Adding More Taking Away	On the Move Deepening Understanding Patterns and Relationships
			One more one less		3D-shape Pattern (2)	Spatial Reasoning (2) Compose and Decompose	Spatial Reasoning (4) Mapping
		Compare amounts. Compare size, mass and capacity.	Shapes with 4 sides	Combining 2 groups.			
			Time	Length & Height			
			Time				
Pattern, Shape & Space & Measure will be covered through White Rose blocks, taught in addition to Mastering Number.	Pattern	Copy an AB pattern. Continue an AB pattern. Create their own AB pattern. Spot an error in an AB pattern. Identify the unit of repeat in a pattern.		Continue an ABC pattern. Continue an ABB pattern. Continue an ABBC pattern. Continue a pattern which ends mid-unit of repeat. Create their own ABB and ABBC patterns. Spot an error in an ABB pattern.		Use symbols to represent a pattern. Recreate a pattern in a different medium. Create a pattern which works in a circle. Create a cyclical pattern which works with a fixed number of spaces.	
	Shape and Space	Move themselves and objects around, so they see things from different perspectives. Visualise how things will appear when turned around and imagining how they might fit together. Make constructions, patterns and pictures, and select shapes which will fit when rotated or flipped in insert boards, shape sorters and jigsaws. Notice the results of rotating and reflecting images, and in visualising them. Use language of position and direction.		Explore shapes, the attributes of particular shapes and select shapes to fulfil a particular need. Discuss items built in terms of how towers are built and why certain shapes are chosen to make a tower, and the space that has been created within an enclosure. Represent spatial relationships in small world play. Construct and create things that represent objects in their environment.		Notice shape properties of objects that they want to represent and think about the appropriateness of the shapes they choose. Describe properties of shapes. Develop an awareness of the properties of shape.	
	Measures	Recognise attributes of measure and use vocabulary to describe them. Use time to sequence events.		Compare continuous quantities. Show an awareness of comparison in estimating and predicting. Compare indirectly. Recognise the relationship between the size and number of units.		Use units to compare things. Experience specific time spans in order to start to develop an overall sense of time.	
ACP: Continuous throughout. Through direct teaching, small group work and continuous provision, our EYFS team regularly observe and assess children's learning to inform their next steps planning (e.g. observation, assessment, planning cycle).							



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YEAR 1

Autumn	Year 1	Place value to 10				Addition and subtractions within 10				PV assess	Geometry	+ and – assess	
Spring	Year 1	Geometry assess	Place value to 20	Addition and subtraction within 20			PV to 20 assess	Place value to 50	+ and – assess	Length and height	PV to 50 assess	Mass and volume	
Summer	Year 1	Measure assess	Multiplication and division	Fractions	X & ÷ assess	Position and direction	Fractions assess	Place value to 100	Money	PV to 100 assess	Time	Money and time assess	Consolidation

Year 1	Declarative- knowing what	Procedural- knowing how	Conditional- knowing when and why
<u>Autumn Block 1</u> <u>Place Value within 10</u>	Read and write numbers from 1 to 10 in numerals and words. ACP: Quick quiz on mini whiteboards. Identify one more or less than a given number. ACP: Quick quiz on mini whiteboards.		
<u>Autumn Block 2</u> <u>Number: Addition and subtraction</u>		Compose numbers to 10 from 2-parts, and partition numbers to 10 into parts. ACP: How many ways can you make 7?	
	<u>Assessment: Place Value withing 10</u>		
<u>Autumn Block 3</u> <u>Geometry: Shape</u>	Recognise common 2-D shapes: rectangles (including squares, circles and triangles presented in different orientations. ACP: PPT quick quiz. Show a variety of shapes and assess understanding orally. Recognise common 3D shapes: Including cuboids, cubes, pyramids and spheres presented in different orientations. ACP: Quick oral identification quiz. Know that the above shapes are not always similar to each other.	Compose 2-D and 3_d shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations. ACP: Practical assessment.	



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	ACP: Assess during above composites.		
		Assessment: Addition and Subtraction	
Spring Term	Assessment: Geometry 1	Assessment: Geometry 1	
<u>Spring Block 1</u> <u>Place Value within 20</u>	Read and write numbers from 1 to 20 in numerals and words. ACP: Quick quiz on mini whiteboards. Identify one more or less than a given number. ACP: Quick quiz on mini whiteboards.	Identify and represent numbers using objects and pictorial representations including the number line. ACP: PPT quick quiz. Show a variety of numbers using different representations. Children to identify and represent using a different representation. Use the language of: equal to, more than, less than, most, least ACP: Oral assessment.	Reason about the location of numbers to 20 within the linear number system, including comparing using $<$ $>$ and $=$. ACP: Assess orally and on mini whiteboards using the symbols.
<u>Spring Block 2</u> <u>Addition and subtraction within 20</u>	Represent and use number bonds and related subtraction facts within 20. ACP: Recall on whiteboards. Develop fluency in addition and subtraction facts within 10. ACP: Speedy recall on Hit the Button (Topmarks)	Add and subtract one-digit and two-digit numbers to 20, including zero. ACP: Low stakes test with access to resources. Read, write and interpret mathematical statements involving addition, subtraction and equals sign. ACP: Low stakes test.	Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations. ACP: Low stakes test with choice of resources. Solve missing number problems such as $7 = * - 9$ ACP: Mini whiteboards. Relate additive expressions and equations to real-life contexts. ACP: Low stakes test.
	Assessment: Place Value within 20	Assessment: Place Value within 20	Assessment: Place Value within 20
<u>Spring Block 3</u> <u>Place Value within 50</u>	Identify one more or less than a given number. ACP: Quick quiz on mini whiteboards.	Identify and represent numbers using objects and pictorial representations including the number line. ACP: PPT quick quiz. Show a variety of numbers using different representations. Children to identify and represent using a different representation. Use the language of: equal to, more than, less than, most, least ACP: Oral assessment.	
	Assessment: Addition and Subtraction within 20	Assessment: Addition and Subtraction within 20	Assessment: Addition and Subtraction within 20
<u>Spring Block 4</u> <u>Measurement: Length and height</u>		Measure and record: lengths/heights, mass/weight, capacity volume, time. ACP: Practical session.	Compare, describe and solve practical problems for: lengths/heights. ACP: Practical session.



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	Assessment: Place Value within 50	Assessment: Place Value within 50	
<u>Spring Block 5</u> <u>Measurement: Mass and volume</u>		Measure and record: mass/weight, capacity volume. ACP: Practical session.	Compare, describe and solve practical problems for: mass/weight, capacity volume. ACP: Practical session.
		Assessment: Measurement: Mass and volume	Assessment: Measurement: Mass and volume
<u>Summer Term</u>		Assessment: Multiplication and division	Assessment: Multiplication and division
<u>Summer Block 1</u> <u>Number: Multiplication and division</u>		Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. ACP: Low stakes test.	Solve one-step problems involving multiplication and division, using concrete objects, pictorial representations and arrays with support. ACP: Low stakes test.
<u>Summer Block 2</u> <u>Number: Fractions</u>	Recognise, find and name a half as one of two equal parts of an object, shape or quantity. ACP: Practical assessment. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. ACP: Practical assessment.		
<u>Summer Block 3</u> <u>Geometry: Position and direction</u>	Use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside. ACP: Practical sessions to assess all aspects orally.	Make whole, half, quarter and three-quarter turns in both directions. ACP: Practical sessions to assess all aspects orally.	Connect turning clockwise with movement on a clock face. ACP: Practical sessions to assess all aspects orally.
	Assessment: Fractions		



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<p><u>Summer Block 4</u> <u>Number: Place Value within 100</u></p>	<p>Read and write numbers to 100 in numerals. ACP: Quick quiz on mini whiteboards. Count to and across 100 forwards and backwards. ACP: Oral counting as class. TA led; T assess. Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers. ACP: Oral counting as class. TA led; T assess. Recognise odd and even numbers. ACP: Oral recognition and reasoning of odd and even numbers 37 is odd because it ends in 7.</p>	<p>Identify and represent numbers using objects and pictorial representations including the number line. ACP: PPT quick quiz. Show a variety of numbers using different representations. Children to identify and represent using a different representation. Use the language of: equal to, more than, less than, most, least ACP: Oral assessment.</p>	
	<p>Assessment: Geometry: Multiplication and division</p>	<p>Assessment: Geometry: Multiplication and division</p>	<p>Assessment: Geometry: Multiplication and division</p>
<p><u>Summer Block 5</u> <u>Measurement: Money</u></p>	<p>Recognise and know the value of different denominations of coins. ACP: Practical assessment session.</p>		
	<p>Assessment: Place value within 100</p>	<p>Geometry: Multiplication and division</p>	
<p><u>Summer Block 6</u> <u>Measurement: Time</u></p>	<p>Tell the time to the hour and half past the hour. ACP: Assess throughout the day: What time is it? Also use mini clocks. Recognise and use language relating to dates, including the days of the week, weeks, months and years. ACP: Oral assessment.</p>	<p>Measure and record: time. ACP: Practical session.</p>	<p>Sequence events in chronological order. ACP: Order 4 images of school day events. Compare, describe and solve practical problems for: time. ACP: Practical session.</p>
	<p>Assessment: Measurement: Money and time</p>	<p>Assessment: Measurement: Time</p>	<p>Assessment: Measurement: Time</p>



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YEAR 2

Autumn	Year 2	Place value			Addition and subtraction				Place value assess	Geometry	+ and – assess	
Spring	Year 2	Shape assess	Money	Multiplication and division			Money assess	Length and height		X & ÷ assess	Mass Capacity Temperature	
Summer	Year 2	Measure assess	Fractions		Time	Fractions assess	Statistics	Time assess	Position and direction	Statistics/ PD assess	Consolidation and investigation	

Year 2	Declarative- knowing what	Procedural- knowing how	Conditional- knowing when and why
<p><u>Autumn Block 1</u> <u>Place Value</u></p>	<p>Read and write numbers to at least 100 in numerals and in words. ACP: Quiz on mini whiteboards. Identify numbers using different representations. ACP: Show numbers on a number line, using Base 10, bead string, part whole model etc. Recognise the value of each digit in a 2-digit number. ACP: Mini whiteboard quiz. What does this 2 represent? Count in steps of 10 from any number, forward and backwards. ACP: Oral counting using counting stick. TA lead and T asses.</p>	<p>Order and compare numbers from 0 up to 100; use < > and = signs. ACP: Mini whiteboard with <, > and = Represent and estimate numbers using different representations, including the number line. ACP: Explode the number 7. Compose and decompose 2-digit numbers using standard and non-standard partitioning. ACP: How many ways can you partition 37?</p>	<p>Reason about the location of any 2-digit number in the linear number system, including identifying the previous and next multiple of 10. ACP: Display a 1-100 number line. T asks questions about numbers, TA records. Use place value and number facts to solve problems. ACP: Quick quiz, multiple choice: plan in answers with misconceptions.</p>
<p><u>Autumn Block 2</u> <u>Number: Addition and subtraction</u></p>	<p>Secure fluency in addition and subtraction facts within 10. ACP: Rapid fire questions on mini whiteboards. Secure fluency in addition and subtraction facts that bridge 10, through continued practice. ACP: Rapid fire questions on mini whiteboards.</p>	<p>Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers.</p>	<p>Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures. ACP: Low stakes test covering all aspects of the composite. Free choice of resources, assess level of abstraction.</p>



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	<p>Recall (to 10) and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100. ACP: Rapid fire questions on mini whiteboards.</p>	<p>ACP: Low stakes test covering all aspects of the composite. Free choice of resources, assess level of abstraction. Add and subtract across 10. ACP: Mini quiz. Add and subtract within 100 by applying related 1-digit facts. ACP: Mini quiz. Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more...?" ACP: Multiple choice quiz.</p>	<p>Apply their increasing knowledge of mental and written methods. ACP: Low stakes test covering all aspects of the composite. Orally assess methods used and reason for choice. Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. ACP: Quick quiz, multiple choice: plan in answers with misconceptions. Orally assess use of vocabulary. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. ACP: Low stakes test. Include questions which cover the above.</p>
	<u>Assessment: Place Value</u>	<u>Assessment: Place Value</u>	<u>Assessment: Place Value</u>
<p><u>Autumn Block 3</u> <u>Geometry: Shape</u></p>	<p>Identify and describe the properties of 2-D shapes using precise language, including the number of sides and line symmetry in a vertical line. ACP: Show shapes and ask children to name and describe them. Identify and describe the properties of 3-D shapes using precise language, including the number of edges, vertices and faces. ACP: Show shapes and ask children to name and describe them. Identify 2-D shapes on the surface of 3-D shapes ACP: Show shapes and ask children to name faces.</p>	<p>Compare and sort common 2-D and 3-D shapes and everyday objects. ACP: Practical session to assess all aspects of the composite orally.</p>	<p>Order and arrange combinations of mathematical objects in patterns and sequences. ACP: Practical activities using Pattern Blocks/Unifix cubes. Compare 2D and 3D shapes by reasoning about similarities and differences in properties. ACP: Display 2 shapes e.g., a cube and a square, a cube and a cuboid. What is the same and what is different?</p>
	<u>Assessment: Addition and Subtraction</u>	<u>Assessment: Addition and Subtraction</u>	<u>Assessment: Addition and Subtraction</u>
<p><u>Spring Term</u></p>	<u>Assessment: Geometry: Shape</u>	<u>Assessment: Geometry: Shape</u>	<u>Assessment: Geometry: Shape</u>
<p><u>Spring Block 1</u> <u>Measurement: Money</u></p>	<p>Recognise and use symbols for pounds (£) and pence (p). ACP: Mini quiz on whiteboard in response to slide showing amounts.</p>	<p>Combine amounts of money to make a particular value. ACP: Show coins to make 29p and 42p. Find different combinations of coins that equal the same amounts of money.</p>	<p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. ACP: Practical activity.</p>



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		ACP: Explode a pound.	
<u>Spring Block 2</u> <u>Number: Multiplication and division</u>	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even number. ACP: TTRS – 2, 5 and 10s. Orally check for odd and even numbers.	Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs. ACP: Paper-based quiz involving all 3 signs in different locations.	
	<u>Assessment: Measurement: Money</u>	<u>Assessment: Measurement: Money</u>	<u>Assessment: Measurement: Money</u>
<u>Spring Block 3</u> <u>Measurement: Length and height</u>		Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) using rulers. ACP: Practical observation. Compare and order lengths and record the results using $>$, $<$ and $=$ ACP: Practical session and observation of recording.	
	<u>Assessment: Multiplication and Division</u>	<u>Assessment: Multiplication and Division</u>	
<u>Spring Block 4</u> <u>Measurement: Mass, Capacity & Temperature</u>		Choose and use appropriate standard units to estimate and measure mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using scales, thermometers and measuring vessels. ACP: Practical observation. Compare and order mass, volume/capacity and record the results using $>$, $<$ and $=$ ACP: Practical session and observation of recording.	
		<u>Assessment: Measurement: Length and Height</u>	
<u>Summer Block 1</u> <u>Fractions</u>	Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity. ACP: Low stakes paper-based quiz covering all elements of the composite. Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.	Write simple fractions for example, $\frac{1}{2}$ of $6 = 3$ ACP: Mini quiz to solve fractions. Include errors, such as $\frac{1}{2}$ of $4 = 8$	



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	<p>ACP: Show an image of a shapes with $\frac{1}{2}$ and $\frac{2}{4}$ coloured. Ask what is the same and what is different?</p>		
		<p><u>Assessment: Measurement: Mass, Capacity and Temperature</u></p>	
<p><u>Summer Block 2</u> <u>Measurement: Time</u></p>	<p>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. ACP: Low stakes test Know the number of minutes in an hour and the number of hours in a day. ACP: Oral responses.</p>	<p>Draw the hands on a clock face and write the time to five minutes, including quarter past/to the hour. ACP: Low stakes test. Compare and sequence intervals of time. ACP: Low stakes test.</p>	
	<p><u>Assessment: Fractions</u></p>	<p><u>Assessment: Fractions</u></p>	
<p><u>Summer Block 3</u> <u>Statistics</u></p>		<p>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. ACP: Low stakes test.</p>	<p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. ACP: Whole class oral responses. Ask and answer questions about totalling and comparing categorical data. ACP: Whole class oral responses.</p>
	<p><u>Assessment: Measurement: Time</u></p>	<p><u>Assessment: Measurement: Time</u></p>	
<p><u>Summer Block 4</u> <u>Geometry: Position and Direction</u></p>	<p>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). ACP: Practical session</p>		<p>Order and arrange combinations of mathematical objects in patterns and sequences. ACP: Practical activities using Pattern Blocks/Unifix cubes (Focus on orientation)</p>
	<p><u>Assessment: Geometry: Position and direction</u></p>	<p><u>Assessment: Statistics</u></p>	<p><u>Assessment: Statistics; Geometry: Position and direction</u></p>



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YEAR 3

Autumn	Year 3	Place Value			Addition Subtraction		Place value assess		Shape	+ and – assess		Multiplication Division			
Spring	Year 3	X & ÷ assess	Multiplication and Division			Length Perimeter	X & ÷ assess	Fractions		Length & perimeter assess	Mass and Capacity	Fractions assess	Consolidation		
Summer	Year 3	Mass and capacity assess	Fractions	Money		Fractions assess	Time	Money assess	Geometry Shape		Time assess	Statistics		Geometry and stats assess	Consolidation

Year 3	Declarative- knowing what	Procedural- knowing how	Conditional- knowing when and why
<p><u>Autumn Block 1</u> <u>Place Value</u></p>	<p>Read and write numbers up to 1000 in numerals and in words. ACP: Quick quiz on whiteboards. Recognise the place value of each digit in a three-digit number. ACP: Quick quiz on whiteboards, focusing on digit values. Identify numbers using different representations. ACP: How many ways can you represent 7892? Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number. ACP: Oral skip counting and 10/100 more or less than questions. Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to work out how many 10s there are in other 3-digit multiples of 10. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>	<p>Order and compare numbers up to 1000. ACP: Fluent in 5 questions. Represent and estimate numbers using different representations. ACP: PPT quiz. Compose and decompose 3-digit numbers using standard and non-standard partitioning. ACP: How many ways can you partition 367? When & why might you use a particular decomposition?</p>	<p>Reason about the location of any 3-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10. ACP: Oral session using ITP Number Line - Mathsframe Solve number problems and practical problems involving the declarative and procedural knowledge above. ACP: Low stakes quiz.</p>
<p><u>Autumn Block 2</u></p>	<p>Calculate complements to 100. ACP: Quick quiz n whiteboards.</p>	<p>Add and subtract numbers mentally, including: a three-digit number and</p>	<p>Solve problems with addition and subtraction using concrete objects and pictorial representations, including those</p>



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<p><u>Number: Addition and subtraction</u></p>	<p>Understand and use the commutative property of addition and understand the related property for subtraction. ACP: Write a brief explanation as to why addition is commutative and subtraction is not.</p>	<p>ones; a three-digit number and tens; a three-digit number and hundreds. ACP: Quick quiz to include missing numbers. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. ACP: Quick quiz to include missing numbers.</p>	<p>involving numbers, quantities and measures. ACP: Low stakes test. Apply their increasing knowledge of mental and written methods Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. ACP: Low stakes test, including space for children to explain methods. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. ACP: Low stakes test.</p>
	<p>Assessment: Place value</p>	<p>Assessment: Place value</p>	<p>Assessment: Place value</p>
<p><u>Autumn Block 3</u> <u>Number: Multiplication and Division A</u></p>	<p>Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. ACP: Use TTRS to ensure recall speed is less than 3 seconds per response. 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. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>		
	<p>Assessment: Addition and Subtraction</p>	<p>Assessment: Addition and Subtraction</p>	<p>Assessment: Addition and Subtraction</p>
<p><u>Consolidation</u></p>			
<p><u>Spring Term</u></p>	<p>Assessment: Multiplication and Division A</p>		
<p><u>Spring Block 1</u> <u>Number: Multiplication and Division B</u></p>		<p>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.</p>	<p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. ACP: Give the children multiplication and division problems. Ask them to solve</p>



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		<p>ACP: Quick quiz to cover all element of the composite.</p>	<p>them using as many of the above ways as possible. Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotative division). ACP: Quick quiz on whiteboards. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. ACP: Write a mini explanation as to why multiplication is commutative and division is not. Give examples to match!</p>
<p><u>Spring Block 2</u> <u>Measurement:</u> <u>Length and Perimeter</u></p>		<p>Measure, compare, add and subtract lengths (m, cm, mm). ACP: Practical measuring session. Record +/- calculations. Measure the perimeter of simple 2-D shapes. ACP: Practical session.</p>	
		<p>Assessment: Multiplication and Division B</p>	<p>Assessment: Multiplication and Division B</p>
<p><u>Spring Block 3</u> <u>Fractions</u></p>	<p>Recognise fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Recognise and show, using diagrams, equivalent fractions with small denominators. ACP: Quick fire questions. Record on whiteboards.</p>	<p>Find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. ACP: Quick fire questions. Record on whiteboards. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. ACP: Quick fire questions. Record on whiteboards. Compare and order unit fractions, and fractions with the same denominators. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>	
		<p>Assessment: Measurement: Length and Perimeter</p>	
<p><u>Spring Block 4</u> <u>Measurement: Mass and capacity</u></p>		<p>Measure, compare, add and subtract mass (kg, g), volume/capacity (l, ml). ACP: Practical measuring session. Record +/- calculations.</p>	



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	<u>Assessment: Fractions</u>	<u>Assessment: Fractions</u>	
<u>Summer Term</u>		<u>Assessment: Measurement: Mass and Capacity</u>	
<u>Summer Block 1</u> <u>Fractions</u>	<p>Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. ACP: Quick fire questions. Record on whiteboards.</p> <p>Find unit fractions of quantities using known division facts. (Multiplication tables fluency). ACP: Quick fire questions. Record on whiteboards.</p>	<p>Add and subtract fractions with the same denominator within one whole. ACP: Quick fire questions. Record on whiteboards.</p>	<p>Solve problems that involve Year 3 declarative and procedural fractions knowledge. ACP: Low stakes quiz including all of the above.</p> <p>Reason about the location of any fraction within 1 in the linear number system. ACP: Oral session using ITP Number Line - Mathsframe</p>
<u>Summer Block 2</u> <u>Measurement: Money</u>		<p>Add and subtract amounts of money to give change, using both £ and p in practical contexts. ACP: Low stakes quiz. Possibly a practical session.</p>	
	<u>Assessment: Fractions</u>	<u>Assessment: Fractions</u>	<u>Assessment: Fractions</u>
<u>Summer Block 3</u> <u>Measurement: Time</u>	<p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p> <p>Estimate and read time with increasing accuracy to the nearest minute. ACP: Quick fire oral questions.</p> <p>Use vocabulary such as o'clock, a.m., p.m., morning, afternoon, noon and midnight. ACP: Quick fire oral questions.</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year. ACP: Fluent in 5 questions.</p>	<p>Record and compare time in terms of minutes, seconds and hours. ACP: Practical session – mins and secs.</p> <p>Compare the duration of events. ACP: Quick quiz on whiteboards.</p>	
		<u>Assessment: Measurement: Money</u>	



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<p><u>Summer Block 4</u> <u>Geometry: Shape</u></p>	<p>Recognise 3-D shapes in different orientations and describe them. ACP: Display shapes on slides. Quick quiz in response on whiteboards. Recognise angles as a property of shape or a description of turn. <i>ACP: Write a definition of an angle.</i> Identify right-angles, recognise that two right-angles make a half-turn, three make three quarters of a turn and four a whole turn. ACP: Quick fire questions on whiteboards. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. ACP: Quick quiz – show in different orientations and sizes. Identify right angles in 2-D shapes in different orientations. ACP: Display shapes on slides. Quick quiz in response on whiteboards.</p>	<p>Draw 2-D shapes and make 3-D shapes using modelling materials. ACP: Practical session. Identify whether angles are greater than or less than right-angle. ACP: Display angles on slides. Quick quiz in response on whiteboards.</p>	
	<p><u>Assessment: Measurement: Time</u></p>	<p><u>Assessment: Measurement: Time</u></p>	
<p><u>Summer Block 5</u> <u>Statistics</u></p>		<p>Interpret and present data using bar charts, pictograms and tables. ACP: Low stakes quiz.</p>	<p>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. ACP: Low stakes quiz.</p>
	<p><u>Assessment: Geometry: Shape</u></p>	<p><u>Assessment: Geometry: Shape</u></p>	
<p><u>Summer Block 6</u> <u>Consolidation</u></p>			
		<p><u>Assessment: Statistics</u></p>	<p><u>Assessment: Statistics</u></p>



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YEAR 4

Autumn	Year 4	Place Value				Addition Subtraction		Place value assess	Measurement Area		+ and – assess	Multiplication and Division	
Spring	Year 4	X and ÷ assess	Multiplication and Division	Length and Perimeter	X and ÷ assess	Fractions	Length and Perimeter assess	Decimals A			Fractions assess	Consolidation	
Summer	Year 4	Decimals assess	Decimals B	Money	Decimals assess	Time	Money assess	Geometry Position + Direction	Time assess	Statistics	Geometry assess	Geometry Position and Direction	Statistics & Geometry assess

Year 4	Declarative- knowing what	Procedural- knowing how	Conditional- knowing when and why
<u>Autumn Block 1</u> <u>Place Value</u>	Identify and represent numbers using different representations. ACP: How many ways can you represent 4378? Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones). ACP: Quick quiz on whiteboards, focusing on digit values. Count in multiples of 6, 7, 9, 25 and 1000. ACP: Oral counting as a class. Count backwards through zero to include negative numbers. ACP: Oral counting as a class. Find 1000 more or less than a given number. ACP: Fluent in 5 questions. Know that 10 hundreds are equivalent to 1 thousand, and that 1000 is 10 times the size of 100; apply this identify and work out how many hundreds there are in other 4-digit multiples of 100.	Order and compare numbers beyond 1000. ACP: Fluent in 5 questions. Estimate numbers using different representations. ACP: Response to slides. Compose and decompose 4-digit numbers using standard and non-standard partitioning. ACP: How many ways can you partition 3679? When & why might you use a particular decomposition? Round any number to the nearest 10, 100 or 1000. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.	Reason about the location of any 4-digit number in the linear number system, including identifying the previous and next multiple of 1000 and 100 and rounding to the nearest of each. ACP: Oral session using ITP Number Line - Mathsframe Solve number and practical problems that involve all of the above and with increasingly large positive numbers. ACP: Low stakes quiz.



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	<p>ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</p> <p>ACP: Fluent in 5 questions. Compare system with ours.</p>		
<p><u>Autumn Block 2</u> <u>Number: Addition and subtraction</u></p>		<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.</p> <p>ACP: Quick quiz to include exchanging, missing box and find the mistake.</p>	<p>Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p> <p>ACP: Low stakes quiz. Include formal/mental methods. Solve problems involving multiplying and adding.</p> <p>ACP: Low stakes quiz on whiteboards Apply place-value knowledge to known additive and multiplicative number facts (scaling by 100).</p> <p>ACP: Quick quiz on whiteboards. Estimate and use inverse operations to check answers to a calculation.</p> <p>ACP: Quick quiz for estimation. Use whiteboards to record inverse calculation.</p>
	<p><u>Assessment: Place Value</u></p>		
<p><u>Autumn Block 3</u> <u>Measurement: Area</u></p>	<p>Recall multiplication and division facts for multiplication tables up to 12×12 and recognise products in multiplication tables as multiples of the corresponding number.</p> <p>ACP: Use TTRS to ensure recall speed is less than 3 seconds per response.</p>	<p>Use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1; dividing by 1; multiplying together three numbers.</p> <p>ACP: Quick quiz.</p>	
		<p><u>Assessment: Addition and Subtraction</u></p>	<p><u>Assessment: Addition and Subtraction</u></p>
<p><u>Autumn Block 4</u> <u>Number: Multiplication and division A</u></p>		<p>Find the area of rectilinear shapes by counting squares.</p> <p>ACP: Quick quiz.</p>	
	<p><u>Assessment: Measurement Area</u></p>	<p><u>Assessment: Measurement Area</u></p>	



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<p><u>Spring Term</u></p>		<p><u>Assessment: Multiplication and Division A</u></p>	
<p><u>Spring Block 1</u> <u>Number: Multiplication and division B</u></p>	<p>Recognise factor pairs. ACP: Fluent in 5 questions. Divide 1000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1000 with 2, 4, 5 and 10 equal parts. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size. ACP: Quick quiz.</p>	<p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. ACP: Quick quiz to include exchanging, missing box and find the mistake. Use factor pairs and commutativity in mental calculations. ACP: Fluent in 5. Solve division problems, with 2-digit dividends and 1-digit divisors that involve remainders. ACP: Quick quiz to include algorithm and word problems.</p>	<p>Interpret remainders appropriately according to the context. ACP: Hinge questions. Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit. ACP: Low stakes quiz. Apply place-value knowledge to known additive and multiplicative number facts (scaling by 100). ACP: Quick quiz on whiteboards. Manipulate multiplication and division equations and understand and apply the commutative property of multiplication. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Understand and apply the distributive property of multiplication. ACP: Explain how the distributive property of multiplication works to a Y3 child. Estimate and use inverse operations to check answers to a calculation. ACP: Quick quiz for estimation. Use whiteboards to record inverse calculation.</p>
<p><u>Spring Block 2</u> <u>Measurement: Length and perimeter</u></p>		<p>Convert between different units of measure (for example, kilometre to metre; hour to minutes). ACP: Quick quiz on whiteboards. Measure and calculate the perimeter of rectilinear figures (including squares) in centimetres and metres. ACP: Low stakes test. Find the perimeter of regular and irregular polygons. ACP: Quick quiz.</p>	
	<p><u>Assessment: Multiplication and Division B</u></p>		<p><u>Assessment: Multiplication and Division B</u></p>



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<p><u>Spring Block 3</u> <u>Number: Fractions</u></p>	<p>Recognise families of common equivalent fractions. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>	<p>Show, using diagrams, families of common equivalent fractions. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number. ACP: Quick quiz. Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers. ACP: Fluent in 5 questions. Convert mixed numbers to improper fractions and vice versa. ACP: Quick quiz on whiteboards.</p>	<p>Solve simple measure and money problems involving fractions and decimals to two decimal places. ACP: Low stakes quiz. Reason about the location of mixed numbers in the linear number system. ACP: Oral session using ITP Number Line - Mathsframe</p>
		<p>Assessment: Measurement: Length and Perimeter</p>	
<p><u>Spring Block 4</u> <u>Number: Decimals A</u></p>	<p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$. ACP: Quick fire questions. Recognise and write decimal equivalents of any number of tenths or hundredths. ACP: Quick fire questions.</p>	<p>Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths, and hundredths.] ACP: Record on whiteboards and explain orally. Can children use the correct vocabulary?</p>	
	<p>Assessment: Fractions</p>	<p>Assessment: Fractions</p>	<p>Assessment: Fractions</p>
<p><u>Summer Term</u></p>	<p>Assessment: Decimals A</p>	<p>Assessment: Decimals A</p>	
<p><u>Summer Block 1</u> <u>Number: Decimals B</u></p>		<p>Compare numbers with the same number of decimal places up to two decimal places. ACP: Compare 2 numbers on whiteboards using < and >. Round decimals with one decimal place to the nearest whole number. ACP: Oral session using ITP Number Line - Mathsframe</p>	<p>Solve simple measure and money problems involving fractions and decimals to two decimal places. ACP: Low stakes quiz.</p>
<p><u>Summer Block 2</u> <u>Measurement: Money</u></p>		<p>Estimate, compare and calculate different measures, including money in pounds and pence. ACP: Low stakes quiz.</p>	
		<p>Assessment: Decimals B</p>	<p>Assessment: Decimals B</p>



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<p><u>Summer Block 3</u> <u>Measurement: Time</u></p>	<p>Read and write time in analogue and digital 12- and 24-hour clocks. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>	<p>Convert time between analogue and digital 12- and 24-hour clocks. ACP: Quick quiz on whiteboards. Convert from hours to minutes; minutes to seconds; years to months; weeks to days. ACP: Quick quiz on whiteboards. Convert between different units of measure (for example, kilometre to metre; hour to minutes). ACP: Quick quiz on whiteboards.</p>	<p>Solve problems involving converting units of time. ACP: Quick quiz on whiteboards.</p>
<p><u>Consolidation</u></p>		<p>Assessment: Measurement Money</p>	
<p><u>Summer Block 4</u> <u>Geometry: Shape</u></p>	<p>Identify acute and obtuse angles. ACP: Show angles on slides. Children identify orally. Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal, and the angles are equal. ACP: Write a definition of a regular polygon and give examples.</p>	<p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. ACP: Practical sorting activity, Explain reasoning. Compare and order angles up to two right angles by size. ACP: Quick quiz. Identify lines of symmetry in 2-D shapes presented in different orientations. ACP: Quick quiz. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry. ACP: Quick quiz.</p>	
	<p>Assessment: Measurement: Time</p>	<p>Assessment: Measurement: Time</p>	<p>Assessment: Measurement: Time</p>
<p><u>Summer Block 5</u> <u>Statistics</u></p>		<p>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. ACP: Provide a set of data for children to present and interpret.</p>	<p>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. ACP Low stakes quiz.</p>
	<p>Assessment: Measurement: Shape</p>	<p>Assessment: Measurement: Shape</p>	



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<p><u>Summer Block 6</u> <u>Geometry: Position and direction</u></p>	<p>Describe positions on a 2-D grid as coordinates in the first quadrant. ACP: Quick fire questions. Show positions on slides.</p>	<p>Describe movements between positions as translations of a given unit to the left/right and up/down. ACP: Quick quiz. Plot specified points and draw sides to complete a given polygon. ACP: Low stakes quiz. Draw polygons specified by coordinates in the first quadrant and translate within the first quadrant. ACP: Low stakes quiz.</p>	
	<p>Geometry: Position and Direction</p>	<p>Assessment: Statistics Geometry: Position and Direction</p>	<p>Assessment: Statistics</p>



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YEAR 5

Autumn	Year 5	Number- Place Value		Addition Subtraction		PV assess and conditional		Multiplication Division		+ and – assess and conditional		Fractions		X and ÷ Assess and conditional		Consolidation		
Spring	Year 5	Fractions A assess	Multiplication and Division B		Fractions B		Multiplication and Division B assess		Decimals and Percentages		Fractions B		Perimeter and Area		Decimals &percentages assess		Statistics Perimeter and Area assess	
Summer	Year 5	Statistics	Shape		Position and direction		Shape assess		Decimals		Position and direction assess		Negative numbers		Decimals assess		Consolidation Negative numbers assess	

Year 5	Declarative- knowing what	Procedural- knowing how	Conditional- knowing when and why
<u>Autumn Block 1</u> <u>Place Value</u>	<p>Read and write numbers to at least 1 000 000 and determine the value of each digit. ACP: Quick quiz on whiteboards, focusing on digit values.</p> <p>Recognise the place value of each digit in numbers with up to 2 decimal places. ACP: Quick quiz on whiteboards, focusing on digit values.</p> <p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000. ACP: Oral whole class chanting.</p> <p>Count forwards and backwards with positive and negative whole numbers, including through zero. ACP: Oral whole class chanting.</p> <p>Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p> <p>Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>	<p>Order and compare numbers to at least 1 000 000. ACP: Quick quiz with responses on whiteboards.</p> <p>Compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning. ACP: Quick quiz with responses on whiteboards.</p> <p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. ACP: Oral session using ITP Number Line - Mathsframe</p>	<p>Reason about the location of any number with up to 2 decimal places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. ACP: Oral session using ITP Number Line - Mathsframe</p> <p>Solve number problems and practical problems that involve all Year 5 Declarative and Procedural knowledge. ACP: Low stakes quiz.</p> <p>Interpret negative numbers in context. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>



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	<p>Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.</p> <p>ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> <p>ACP: Quick quiz with responses on whiteboards.</p>		
<p><u>Autumn Block 2</u> <u>Number: Addition and subtraction</u></p>		<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</p> <p>ACP: Quick quiz to include exchanging, missing box and find the mistake.</p> <p>Add and subtract numbers mentally with increasingly large numbers.</p> <p>ACP: Quick quiz on whiteboards and oral reasoning.</p>	<p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>ACP: Low stakes test; orally assess choice of methods.</p> <p>Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).</p> <p>ACP: Quick quiz with responses on whiteboards.</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of =.</p> <p>ACP: Low stakes test.</p> <p>Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.</p> <p>ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>
	<p><u>Assessment: Place Value</u></p>	<p><u>Assessment: Place Value</u></p>	<p><u>Assessment: Place Value</u></p>



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<p><u>Autumn Block 3</u> <u>Multiplication and division A</u></p>	<p>Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. ACP: Use TTRS to ensure recall speed is less than 3 seconds per response.</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3). ACP: Fluent in 5 questions.</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers. ACP: Write definitions of the 3 terms.</p> <p>Recall prime numbers up to 19. ACP: Quick fire questions – responses on whiteboards.</p> <p>Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size. ACP: Quick fire questions – responses on whiteboards. Include all vocabulary in composite.</p>		
		<p>Assessment: Addition and Subtraction</p>	<p>Assessment: Addition and Subtraction</p>
<p><u>Autumn Block 4</u> <u>Fractions A</u></p>	<p>Recognise mixed numbers and improper fractions and write mathematical statements > 1 as a mixed number. ACP: Quick quiz on whiteboards.</p> <p>Identify, name and write equivalent fractions of a given fraction, including tenths and hundredths, and understand they have the same position in the linear number system. ACP: Quick quiz on whiteboards.</p> <p>Compare and order fractions whose denominators are all multiples of the same number. ACP: Quick quiz on whiteboards.</p>	<p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number. ACP: Quick quiz on whiteboards. Oral reasoning.</p> <p>Convert from mixed numbers and improper fractions. ACP: Quick quiz on whiteboards.</p>	
	<p>Assessment: Multiplication and Division A</p>		



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Spring Term	<u>Assessment: Fractions A</u>	<u>Assessment: Fractions A</u>	
<p><u>Spring Block 1</u> <u>Multiplication and division B</u></p>	<p>Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. ACP: Quick fore questions, including above vocabulary.</p>	<p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. ACP: Quick quiz – responses on whiteboards. Multiply and divide numbers mentally drawing upon known facts. ACP: Quick quiz – responses on whiteboards. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context. ACP: Quick quiz to assess all elements of the composite. Find factors and multiples of positive whole numbers, including common factors and common multiples, finding all factor pairs of a number, and express a given number as a product of 2 or 3 factors. ACP: Low stakes test.</p>	<p>Solve problems involving multiplication and division using their knowledge of factors and multiples, squares and cubes. ACP: Low stakes test. Orally assess knowledge of factors, multiples, squares and cubes. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth). ACP: Quick quiz on whiteboards. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. ACP: Low stakes test. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>
<p><u>Spring Block 2</u> <u>Fractions B</u></p>		<p>Find non-unit fractions of quantities. ACP: Quick quiz on whiteboards. Oral reasoning. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. ACP: Low stakes test – free choice of resources.</p>	
	<u>Assessment: Multiplication and Division B</u>	<u>Assessment: Multiplication and Division B</u>	<u>Assessment: Multiplication and Division B</u>



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<p><u>Spring Block 3</u> <u>Number: Decimals and percentages</u></p>	<p>Read and write decimal numbers as fractions. ACP: Fluent in 5. Recall decimal fraction equivalents for $1/2$, $1/4$, $1/5$, and $1/10$, and for multiples of these unit fractions. ACP: Quick fire questions – record on whiteboards Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Read and write numbers with up to three decimal places. ACP: Fluent in 5. Recognise the percent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions.</p>	<p>Order and compare numbers with up to three decimal places. ACP: Quick quiz on whiteboards. Oral reasoning. Round decimals with two decimal places to the nearest whole number and to one decimal place. ACP: Quick quiz on whiteboards. Oral reasoning.</p>	
		<p>Assessment: Fractions B</p>	
<p><u>Spring Block 4</u> <u>Perimeter and area</u></p>	<p>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) including using common decimals and fractions. ACP: Quick quiz, multiple choice: plan in answers with misconceptions.</p>	<p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. ACP: Measure - practical session. Calculate - quick quiz Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes. ACP: Quick quiz, multiple choice: plan in answers with misconceptions.</p>	<p>Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. ACP: Low stakes test to include all aspects of the composite.</p>
	<p>Assessment: Decimals and percentages</p>	<p>Assessment: Decimals and percentages</p>	
<p><u>Spring Block 5</u> <u>Statistics</u></p>		<p>Complete, read and interpret information in tables, including timetables.</p>	<p>Solve comparison, sum and difference problems using information presented in a line graph.</p>



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		ACP: Provide a partially completed (time)table for children to complete, read and interpret.	ACP: Low stakes test to cover all elements of the composite.
	Assessment: Measurement: Perimeter and Area	Assessment: Measurement: Perimeter and Area	Assessment: Measurement: Perimeter and Area
<u>Summer Term</u>		Assessment: Statistics	Assessment: Statistics
<u>Summer Block 1 Shape</u>	<p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. ACP: Show 2D representations on slides. Children identify 3D shapes orally. Know angles are measured in degrees. ACP: Write a definition of degrees in the context of shape. Identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and $1/2$ a turn (total 180°); other multiples of 90°. ACP: Low stakes test.</p>	<p>Estimate and compare acute, obtuse and reflex angles. ACP: Show angles on slides. Children estimate and compare orally. Draw given angles, and measure them in degrees ($^\circ$). ACP: Low stakes test.</p>	<p>Use the properties of rectangles to deduce related facts and find missing lengths and angles. ACP: Quick multiple-choice quiz. Plan in answers with misconceptions. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. ACP: Show polygons slides. Orally assess reasoning re sides and angles.</p>
<u>Summer Block 2 Position and direction</u>		<p>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. ACP: Low stakes test.</p>	
	Assessment: Geometry: Shape	Assessment: Geometry: Shape	Assessment: Geometry: Shape
<u>Summer Block 3 Decimals</u>			<p>Solve problems involving number up to three decimal places. ACP: Low stakes test. Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25. ACP: Low stakes test.</p>
		Assessment: Geometry: Position and Direction	
<u>Summer Block 4 Negative numbers</u>			<p>Interpret negative numbers in context. ACP: Quick quiz, multiple choice: plan in answers with misconceptions.</p>
			Assessment: Decimals Negative Numbers



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YEAR 6

Autumn	Year 6	Number- Place Value	Addition, Subtraction, Multiplication and Division		PV assess	Fractions A	+, -, X and ÷ assess	Fractions B	Fractions A assess I	Measurement – Converting units	Fractions B assess	Consolidation
Spring	Year 6	Converting units assess	Ratio	Algebra	Ratio assess	Decimals	Algebra assess	Fractions, Decimals and Percentages	Decimals Assess	Area perimeter and volume	F, D & Percentages assess	Consolidation
Summer	Year 6	Perimeter Area and Volume assess	Geometry: Shape	Position and Direction	Geometry assess	Consolidation and Problem Solving Preparation for KS3						

<u>Year 6</u>	Declarative- knowing what	Procedural- knowing how	Conditional- knowing when and why
<u>Autumn Block 1 Place Value</u>	<p>Read and write numbers up to 10 000 000 and determine the value of each digit.</p> <p>ACP: Quick quiz on whiteboards regarding digit values.</p> <p>Recognise the place value of each digit in numbers with up to 10 million, including decimal fractions.</p> <p>ACP: Quick quiz on whiteboards regarding digit values.</p> <p>Understand the relationship between the powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply by 10, 100 and 1000).</p> <p>ACP: Oral assessment of relationships.</p> <p>Round any whole number to a required degree of accuracy.</p> <p>ACP: Quick multiple-choice quiz – plan in misconception options.</p>	<p>Order and compare numbers up to 10 0000.</p> <p>ACP: Quick whiteboard quiz.</p> <p>Compose and decompose numbers with up to 10 million using standard and non-standard partitioning.</p> <p>ACP: How many ways can you partition 5, 964, 267? When and why might you use a particular decomposition?</p> <p>Use negative numbers in context and calculate intervals across zero.</p> <p>ACP: Quick multiple-choice quiz – plan in misconception options.</p>	<p>Reason about the location of any number with up to 2 decimal places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each.</p> <p>ACP: Oral session using ITP Number Line - Mathsframe</p> <p>Solve number problems and practical problems that involve all Year 6 Declarative and Procedural knowledge.</p> <p>ACP: Low stakes test.</p>



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<p>Autumn Block 2 Number: Addition, subtraction, multiplication and division</p>	<p>Sustain fluency in multiplication table facts, and corresponding division facts, through continued practice. ACP: Use TTRS to ensure recall speed is less than 3 seconds per question. Identify common factors, common multiples and prime numbers. ACP: Fluent in 5 questions.</p>	<p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. ACP: Quick quiz to assess all elements of the composite. Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. ACP: Quick quiz to assess all elements of the composite. Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. ACP: Quick quiz to assess all elements of the composite. Perform mental calculations, including with mixed operations and large numbers. ACP: Quick whiteboard quiz. Use their knowledge of the order of operations to carry out calculations involving the four operations. ACP: Quick whiteboard quiz.</p>	<p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ACP: Low stakes quiz to assess all elements of the composite. Oral assessment of choice o methods. Solve problems involving addition, subtraction, multiplication, and division. ACP: Low stakes quiz to assess all elements of the composite. Oral assessment of choice o methods. Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. ACP: Quick multiple-choice quiz – plan in misconception options.</p>
	<p>Assessment: Place Value</p>	<p>Assessment: Place Value</p>	<p>Assessment: Place Value</p>
<p>Autumn Block 3 Fractions A</p>		<p>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. ACP: Quick whiteboard quiz. Compare and order fractions, including fractions > 1. ACP: Quick whiteboard quiz. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. ACP: Quick multiple-choice quiz – plan in misconception options.</p>	



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	Assessment: Addition, Subtraction, Multiplication and Division	Assessment: Addition, Subtraction, Multiplication and Division	Assessment: Addition, Subtraction, Multiplication and Division
<u>Autumn Block 4</u> <u>Fractions B</u>		Multiply simple pairs of proper fractions, writing the answer in its simplest form. ACP: Quick multiple-choice quiz – plan in misconception options. Divide proper fractions by whole numbers. ACP: Quick whiteboard quiz.	
		Assessment: Fractions A	
<u>Autumn Block 5</u> <u>Measurement: Converting units</u>	Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. ACP: Low stakes quiz to include all aspects of the composite.	Convert between miles and kilometres. ACP: Quick whiteboard quiz.	Solve problems involving the calculation and <u>conversion</u> of units of measure, using decimal notation up to three decimal places where appropriate. ACP: Low stakes quiz to include all aspects of the composite.
		Assessment: Fractions B	
<u>Spring Term</u>	Assessment: Measurement: Converting units	Assessment: Measurement: Converting units	Assessment: Measurement: Converting units



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<p><u>Spring Block 1</u> <u>Ratio</u></p>		<p>Calculate percentages of quantities. ACP: Quick multiple-choice quiz – plan in misconception options.</p> <p>Calculate scale factors of similar shapes. ACP: Quick multiple-choice quiz – plan in misconception options.</p>	<p>Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. ACP: Quick multiple-choice quiz – plan in misconception options.</p> <p>Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison. ACP: Quick multiple-choice quiz – plan in misconception options.</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found. ACP: Quick multiple-choice quiz – plan in misconception options.</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. ACP: Quick multiple-choice quiz – plan in misconception options.</p>
<p><u>Spring Block 2</u> <u>Algebra</u></p>		<p>Use simple formulae. ACP: Quick multiple-choice quiz – plan in misconception options.</p> <p>Generate and describe linear number sequences. ACP: Quick whiteboard quiz. Orally assess reasoning to check for any misconceptions.</p> <p>Express missing number problems algebraically. ACP: Quick multiple-choice quiz – plan in misconception options.</p> <p>Find pairs of numbers that satisfy an equation with two unknowns. ACP: Low stakes quiz (2 or 3 questions). Orally assess reasoning.</p> <p>Enumerate possibilities of combinations of two variables. ACP: Low stakes quiz (2 or 3 questions). Orally assess reasoning.</p>	
		<p><u>Assessment: Ratio</u></p>	<p><u>Assessment: Ratio</u></p>



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<p>Spring Block 3 <u>Decimals</u></p>	<p>Identify the value of each digit in numbers given to three decimal places. ACP: Quick whiteboard quiz to ascertain awareness of digit values.</p>	<p>Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]. ACP: Quick whiteboard quiz. Orally assess understanding of association. Multiply and divide numbers by 10, 100 and 1000, giving answers up to three decimal places. ACP: Quick fire whiteboard quiz. Use written division methods in cases where the answer has up to two decimal places. ACP: Quick multiple-choice quiz – plan in misconception options.</p>	<p>Solve problems which require answers to be rounded to specified degrees of accuracy. ACP: Quick multiple-choice quiz – plan in misconception options.</p>
		<p>Assessment: Algebra</p>	
<p>Spring Block 4 <u>Fractions, decimals and percentages</u></p>	<p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. ACP: Quick fire whiteboard quiz.</p>		
	<p>Assessment: Decimals</p>	<p>Assessment: Decimals</p>	<p>Assessment: Decimals</p>
<p>Spring Block 5 <u>Area, perimeter and volume</u></p>	<p>Recognise that shapes with the same areas can have different perimeters and vice versa. ACP: Low stakes quiz. Orally assess reasoning. Recognise when it is possible to use formulae for area and volume of shapes. ACP: Quick quiz. Multiple choice of methods.</p>	<p>Calculate the area of parallelograms and triangles. ACP: Low stakes quiz. Orally assess reasoning. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]. ACP: Low stakes quiz. Orally assess reasoning.</p>	
	<p>Assessment: Fractions, Decimals and Percentages</p>		



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<p><u>Spring Block 6</u> <u>Statistics</u></p>		<p>Interpret and construct pie charts and line graphs. ACP: Low stakes quiz. Pay attention to accuracy. Calculate and interpret the mean as an average. ACP: Quick multiple-choice quiz – plan in misconception options.</p>	<p>Solve problems from pie charts and line graphs which have been constructed. ACP: Quick multiple-choice quiz – plan in misconception options.</p>
	<p><u>Assessment: Area, Perimeter and Volume</u></p>	<p><u>Assessment: Area, Perimeter and Volume</u></p>	
<p><u>Summer Term</u></p>		<p><u>Assessment: Statistics</u></p>	<p><u>Assessment: Statistics</u></p>
<p><u>Summer Block 1</u> <u>Properties of Shape</u></p>	<p>Recognise and describe simple 3-D shapes. ACP: Show shapes on IWB – name and describe on whiteboards/orally. Name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. ACP: Quick quiz – label circle and complete formula ($d = 2r$). Recognise angles where they meet at a point, are on a straight line, or are vertically opposite. ACP: Low stakes quiz to include all elements of the composite.</p>	<p>Draw 2-D shapes using given dimensions and angles. ACP: Low stakes quiz including 2 or 3 questions, Assess accuracy. Build simple 3-D shapes, including making nets. ACP: Practical session. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. ACP: Low stakes quiz. Orally assess reasoning. Illustrate parts of circles, including radius, diameter, and circumference. ACP: Low stakes quiz. Assess accuracy.</p>	
<p><u>Summer Block 2</u> <u>Position and direction</u></p>	<p>Describe positions on the full coordinate grid (all four quadrants). ACP: PPT displaying co-ordinate grid. Record on whiteboards.</p>	<p>Draw and translate simple shapes on the coordinate plane and reflect them in the axes. ACP: Low stakes quiz (2 or 3 questions). Assess accuracy.</p>	
	<p><u>Assessment: Geometry: Properties of Shape</u> <u>Geometry: Position and Direction</u></p>	<p><u>Assessment: Geometry: Properties of Shape</u> <u>Geometry: Position and Direction</u></p>	

Consolidation and problem solving
- Preparation for Key Stage 3