Grizedale Maths Overview 2024-2025

Autumn 1

		Year 3	Year 4
Week 1	**Measurement - Time**	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].	Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days *and problems involving money and measure*
Week 2	**Number and Place Value**	Read and write numbers up to 1000 in words. Identify, represent and estimate numbers using different representations (including the number line) Partition numbers in different ways. Compare and order numbers up to 1000.	Read and write numbers to at least 10,000. Recognise the place value of each digit in a four-digit number. Partition numbers in different ways. Identify, represent and estimate numbers using different representations (including the number line) Order and compare numbers beyond 1000.
Week 3	**Number and Place Value**	Count in steps from 0 of 4, 8, 5 and 100 Find 1, 10 or 100 more than a given number. Compare and order numbers up to 1000.	Read and write numbers with up to 2 decimal places Identify the value of each digit to two decimal places Partition numbers in different ways Order and compare numbers with the same number of decimal places up to two decimal places Find 0.1, 1, 10, 100 or 1000 more or less than a given number
Week 4 **Week 5**	**Nunber – Addition and Subtraction**	Number Fluency: Select a mental strategy appropriate for the numbers involved in the calculation. Recall/use addition / subtraction facts for 100 (multiples of 5 and 10) Derive and use addition and subtraction facts for multiples of 100 totalling 1000. Add and subtract numbers mentally.	Select a mental strategy appropriate for the numbers involved in the calculation. Recall/use addition / subtraction facts for 100 (multiples of 5 and 10) Derive and use addition and subtraction facts for 100 Derive and use addition and subtraction facts for multiples of 100 totalling 1000 Add and subtract numbers mentally

Week 6	**Multiplication and Division**	Concrete and Pictorial tools for multiplication and understanding multiplication as repeated addition and division as grouping. Revisit of Y2 Expectation: Understand multiplication as repeated addition and arrays. Understand division as sharing and grouping and that a division calculation can have a remainder. Recall and use multiplication and division facts for 2-, 5- and 10-times tables including recognising odd and even numbers.	Revisit of Y3 Expectation: Understand how multiplication and division statements can be represented using arrays. Recall and use multiplication and division facts for the 3-, 4- and 8-times tables. Use place value, known and derived facts to multiply and divide mentally including multiplying by 0 and 1, multiplying three numbers, dividing by 1
Week 7	**Multiplication and Division**	Understand that division is the inverse of multiplication and vice versa. Understand how multiplication and division statements can be represented using arrays. Recall and use multiplication and division facts for the 3. 4- and 8-times tables.	Recognise and use factor pairs and commutativity for multiplication tables 12 X 12 Recall multiplication and division facts for up to 12 X 12
Mrs Taylor	**Measurement** **Big Maths Lesson**	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, am/pm, morning, afternoon, noon and midnight. *Solve problems that involving money and measures and simple problems involving passage of time.*	Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days *and problems involving money and measure*

Autumn 2

		Year 3	Year 4

Week 1	**Geometry – Properties of Shape / Measurement** **Statistics**	Draw 2-D shapes. *Use sorting diagrams to compare and sort objects, numbers and common 2D and 3D shapes and everyday objects.* Measure the perimeter of simple 2-D shapes. *Understand perimeter is a measure of distance around the boundary of a shape.* Interpret and present data using bar charts, pictograms and tables. Solve one and two-step questions using information presented in scaled bar charts and pictograms and tables Describe and extend number sequences involving counting on or back in different steps.	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes *Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes* Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Week 2	**Number and Place Value**	Find the effect of multiplying a one- or two-digit number by 10 and 100, identify the value of the digits in the answer Round numbers to at least 1000 to the nearest 10 and 100.	Find the effect of dividing a one or two digit number by 10 and 100, identify the value of the digits in the answer Round any number to the nearest 10, 100 or 1000
Week 3 **Week 4**	**Addition and Subtraction** **Addition and Subtraction**	Add and subtract numbers with up to three digits using formal written methods of columnar addition and subtraction.	Add and subtract numbers with up to 4 digits *and decimals with one decimal place* using the formal methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation
Week 5	**Multiplication and Division**	Derive and use doubles of all numbers to 100 and corresponding halves Derive and use doubles of all multiples of 50 to 500 Write and calculate mathematical statements for multiplication and division using the multiplication tables they know including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	*Use partitioning to double or halve any number, including decimals to one decimal place* Multiply two-digit numbers and three-digit numbers by a one-digit number using formal written layout
Week 6	**Multiplication and Division**	Write and calculate mathematical statements for multiplication and division using the multiplication tables they know including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	Divide numbers up to 3 digits by one-digit using the formal written method of short division and interpret remainders appropriately for the context
Mrs Taylor	**Geometry – Properties of Shape / Measurement** **Big Maths Lesson**	Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that 2 right angles make a half-turn, 3 make three- quarters of a turn and 4 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	Identify acute and obtuse angles and compare and order angles up to 2 right angles by size *Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines* Find the area of rectilinear shapes by counting squares.

			Know area is a measure of surface within a given boundary

Spring 1

		Year 3	Year 4
Week 1	**Geometry – Properties of Shape** **Number and Place Value**	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. *Use sorting diagrams to compare and sort objects, numbers and common 2D and 3D shapes and everyday objects.* Count from 0 in multiples of 4, 8, 50 and 100 Identify, represent and estimate numbers using different representations (including the number line) Recognise the place value of each digit in a three-digit number Partition numbers in different ways Compare and order numbers up to 1000 Find 1, 10 or 100 more or less than a given number	Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry Count in multiples of 6, 7, 9, 25 and 1000 Partition numbers in different ways Identify, represent and estimate numbers using different representations (including the number line) Order and compare numbers beyond 1000 Order and compare numbers with the same number of decimal places with up to two decimal places Count backwards through zero to include negative numbers
Week 2	**Number and Place Value**	Round numbers to at least 1000 to the nearest 10 or 100 Find the effect of multiplying a one- or two-digit number by 10 and 100, identify the value of the digits in the answer	Round any number to the nearest 10, 100 or 1000 Find the effect t of dividing a one-digit or two-digit number by 10 and 100, identifying the value of the digits in the answer
Week 3	**Addition and Subtraction**	Number Fluency: Select a mental strategy appropriate for the numbers involved in the calculation. Understand and use take away and different for subtraction, deciding on the most efficient method for the numbers involved, irrespective of context Recall / use addition facts for 100 Derive and use addition and subtraction facts for multiples of 100 totalling 1000 Add and subtract numbers mentally including: A three-digit number and ones, tens and hundreds	Select a mental strategy appropriate for the numbers involved in the calculation Recall and use addition and subtraction facts for 100 Recall and use +/- facts for multiples of 100 totaling 1000 Derive and use addition and subtraction facts for 1 and 10 (with decimal numbers to one decimal place) Add and subtract mentally combinations of two and three digit numbers and decimals to one decimal place
Week 4	**Multiplication and Division**	Understand how multiplication and division statements can be represented using arrays Recall and use multiplication and division facts for the 3, 4 and 8 times tables Derive and use doubles of all numbers to 100 and corresponding	Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for 12 X 12 Use partitioning to double or halve any number including decimals to one decimal place

		halves. Derive and use doubles of all multiples of 50 to 500	Use place value, known and derived facts to multiply and divide mentally incluidng multiplying by 0 and 1, dividing by 1, multiplying three numbers
Week 5	**Multiplication and Division**	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	Multiply two-digit numbers and three-digit numbers by one-digit using formal written layout
Week 6			Divide numbers up to three-digit by a one-digit number using the formal written method of division and interpret remainders appropriately for the context
Mrs Taylor	**Geometry – Properties of Shape** **Position and Direction** **Time** **Big Maths Lesson**	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. *Use sorting diagrams to compare and sort objects, numbers and common 2D and 3D shapes and everyday objects.* Describe positions on a squared grid labelled with letters and numbers. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks *Solve problems that involving money and measures and simple problems involving passage of time.*	Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry. Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. Plot specified points and draw sides to complete a given polygon. Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days *and problems involving money and measure*

Spring 2

		Year 3	**Year 4**
Week 1	**Measurement** **Addition and Subtraction**	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). *Continue to estimate and measure temperature to the nearest degree (°C) using thermometers.* *Solve problems that involving money and measures and simple problems involving passage of time.* Add and subtract numbers with up to three-digits using formal written methods of columnar addition and subtraction	Convert between different units of measure [for example, kilometre to metre; hour to minute]. *Order temperatures including those below 0°C* Add and subtract numbers with up to 4 digits *and decimals with one decimal place* using the formal methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts deciding which operations and methods to use and why

		Estimate the answer to a calculation and use inverse operations to check answers	
Week 2	**Fractions**	Show practically or pictorially that a fraction is one whole number divided by another Recognise that tenths arise from dividing objects into 10 equal parts and dividing one-digit numbers or quantities by 10 Count on and back in steps of 1/3, ½ and ¼	Understand that a fraction is one whole number divided by a number Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by 10 Count on and back in steps of unit fractions
Week 3	**Fractions**	Understand that finding a fraction of an amount relates to division Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Recognise, find and write fractions of a discrete set of objects including those with a range of numerators and denominators
Week 4	**Fractions**	Recognise and show, using diagrams equivalent fractions with small denominators	Recognise and show, using diagrams, families of common equivalent fractions Recognise and write decimal equivalents of any number of tenths or hundreths Recognise and write decimal equivalents to ¼, ¼ and ¾
Week 5	**Fractions**	Add and subtract fractions with the same denominator within one whole	Add and subtract fractions with the same denominator (using diagrams)
Week 6	**Fractions**	Compare and order unit fractions, and fractions with the same denominator	Compare and order unit fractions and fractions with the same denominators (including on a number line)
Mrs Taylor	**Measurement** **2D Shape** **Big Maths Lesson**	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). *Continue to estimate and measure temperature to the nearest degree (°C) using thermometers.* *Solve problems that involving money and measures and simple problems involving passage of time.* Draw 2-D shapes. *Use sorting diagrams to compare and sort objects, numbers and common 2D and 3D shapes and everyday objects.*	Convert between different units of measure [for example, kilometre to metre; hour to minute]. *Order temperatures including those below 0°C* Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes *Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes*

Summer 1

		Year 3	**Year 4**

Week 1	**Measurement – Money** **Number and Place Value**	Add and subtract amounts of money to give change, using both £ and p in practical contexts. *Continue to recognise and use the symbols for pounds (£) and pence (p) and understand that the decimal point separates pounds/pence.* *Recognise that ten 10p coins equal £1 and that each coin is 1 10 of £1.* *Solve problems that involving money and measures and simple problems involving passage of time.* Count from 0 in multiples of 4, 8, 50 and 100 Read Roman numerals from I to XII	Estimate, compare and calculate different measures, including money in pounds and pence Estimate, compare and calculate different measures, including money in pounds and pence *Write amounts of money using decimal notation* *Recognise that one hundred 1p coins equal £1 and that each coin is 1 100 of £1* Solve *problems involving money and measure* Count in multiples of 6, 7, 8, 9, 25 and 1000 Read Roman Numerals for 100 and know that over time, the numeral system has changed to include the concept of 0 and place value
Week 2	**Number and Place Value**	Count up and down in tenths Read and write numbers with one decimal place Identify the value of each digit to one decimal place Compare and order numbers with one decimal place	Count up and down in hundredths Solve number problems that involve all place value skills with increasingly large positive numbers
Week 3	**Fractions**	Count on and back in steps of ½, 1/3 and ¼ Recognise that tenths arrise from diving objects into 10 equal parts and in dividing one-digit numbers by 10 Recognise, find and write fractions of a discrete set of objects Add and subtract fractions with the same denominator within one whole	Count on and back in steps of unit fractions Recognise, find and write fractions of a discrete set of objects, including those with a range of numerators and denominators Add and subtract fractions with the same denominator
Week 4	**Fractions**	Recognise and show, using diagrams, equivalent fractions within one whole Compare and order unit fractions and fractions with the same denominator Solve problems that involve all of the above	Recognise and show using diagrams, families of common equivalent fractions Recognise and write decimal equivalents of any number of tenths or hundredths 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 Solve simple measure and money problems involving fractions and decimals to two decimal places
Week 5	**Addition and Subtraction**	Add and subtract numbers with up to three-digits using formal written methods of columnar addition and subtraction.	Add and subtract numbers with up to four digits and decimals with one decimal place using the formal columnar addition and subtraction where appropriate

		Estimate the answer to a calculation and use inverse operations to check answers. Solve problems including missing number problems using number facts, place value and complex addition and subtraction.	Estimate; use inverse operations to check answers to a calculation Solve addition andf subtraction two-step problems in contexts, deciding which operations and methods to use and why Solve addition and subtraction problems invlving missing numbers
Week 6	**Multiplication and Division**	Recall and use multiplication facts for the 3, 4 and 8 times tables Write and calculate mathematical statements for multiplication and division using the tables they know, including 2-digit by 1-digit using mental and progressing to formal written methods Use estimation to check answers to calculations to determine, in the context an appropriate degree of accuracy	Recognise and user factor pairs and commutativity in mental calulcations Recall multiplication and division facts for 12 X 12 Use partitioning to double or halve any number, including to one decimal place Use place value, known and derived facts to multiply and divide mentally Multiply two or three-digit numbers by one-digit using formal written layout Divide numbers with up to 3-digits by one-digit using formal written layout and interpret remainders Use estimation and inverse operations to check answers
Mrs Taylor	**Measurement – Money** **Time** **Big Maths Lesson**	Add and subtract amounts of money to give change, using both £ and p in practical contexts. *Continue to recognise and use the symbols for pounds (£) and pence (p) and understand that the decimal point separates pounds/pence.* *Recognise that ten 10p coins equal £1 and that each coin is 1 10 of £1.* *Solve problems that involving money and measures and simple problems involving passage of time.* Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks *Solve problems that involving money and measures and simple problems involving passage of time.*	Estimate, compare and calculate different measures, including money in pounds and pence *Write amounts of money using decimal notation* *Recognise that one hundred 1p coins equal £1 and that each coin is 1 100 of £1* *Solve problems involving money and measure* Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days *and problems involving money and measure*

Summer 2

		Year 3	Year 4

Week 1	**Measurement** **Place Value**	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). *Continue to estimate and measure temperature to the nearest degree (°C) using thermometers.* *Solve problems that involving money and measures and simple problems involving passage of time.* Partition numbers in different ways Compare and order numbers to 1000 Identify, represent and estimate numbers using different representations (including the number line) Describe and extend number sequences involving counting on or back in different steps	Convert between different units of measure [for example, kilometre to metre; hour to minute]. *Order temperatures including those below 0°C* Partition numbers in different ways Order and compare numbers with the same number of decimal places up to two decimal places Find 0.1, 10, 100 or 1000 more than a given number Describe and extend number sequences involving counting on or back in different sequences with multiplication and division steps
Week 2	**Place Value**	Round numbers to at least 1000 to the nearest 10 or 100 Solve number problems and concrete problems involving these ideas	Round any number to the nearest 10, 100 or 1000 Round decimals to the nearest whole number (1 dp)
Week 3	**Addition and Subtraction**	Select a mental strategy for the numbers involved in the calculation Understand and use takeaway and difference for subtraction, deciding on the most efficient method for the numbers involved Recall and use addition and subtraction facts for 100 Derive and use addition and subtraction facts for 100 Derive and use addition and subtraction facts for multiples of 100 totalling 1000 Add and subtract numbers mentally including a three-digit number by ones, tens and hundreds	Select a mental strategy for the numbers involved in the calculation Understand and use takeaway and difference for subtraction, deciding on the most efficient method for the numbers involved Recall and use addition and subtraction facts for 100 Derive and use addition and subtraction facts for 100 Derive and use addition and subtraction facts for multiples of 100 totalling 1000 Derive and use addition and subtraction facts for 1 and 10 Add and subtract mentally combinations of two and three-digit numbers and decimals to one decimal place
Week 4	**Addition and Subtraction**	Add and subtract up to three-digit numbers using formal methods of columnar addition and subtraction Choose an appropriate strategy to solve a calculation based upon the numbers involved Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction	Add and subtract numbers with up to four digits and decimals with one decimal place using the formal columnar addition and subtraction where appropriate Estimate; use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

			Solve addition and subtraction problems invlving missing numbers
Week 5 **Week 6**	**Multiplication and Division**	Write and calculate mathematical statements for multiplication and division using the tables they know, including 2-digit by 1-digit using mental and progressing to formal written methods Choose an appropriate strategy based on the numbers involved Solve problems, including missing number problems involving multiplication and division including positive integer scaling problems and correspondence problems in which objects are connected to objects	Multiply two or three-digit numbers by one-digit using formal written layout Divide numbers with up to 3-digits by one-digit using formal written layout and interpret remainders Use estimation and inverse operations to check answers Solve problems involving multiplying and adding, including using the distributive law to multiply a two-digit number by a one-digit, dividing including remainders, integer scaling problems and harder correspondence problems such as when objects are connected to objects
Mrs Taylor	**Measurement** **3D Shape** **Time** **Property of Shape** **Big Maths Lesson**	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). *Continue to estimate and measure temperature to the nearest degree (°C) using thermometers.* *Solve problems that involving money and measures and simple problems involving passage of time.* Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. *Use sorting diagrams to compare and sort objects, numbers and common 2D and 3D shapes and everyday objects.* Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks *Solve problems that involving money and measures and simple problems involving passage of time.* Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that 2 right angles make a half-turn, 3 make three- quarters of a turn and 4 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	Convert between different units of measure [for example, kilometre to metre; hour to minute]. *Order temperatures including those below 0°C* Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days *and problems involving money and measure* Identify acute and obtuse angles and compare and order angles up to 2 right angles by size *Continue to identify horizontal and vertical lines and pairs of perpendicular and parallel lines* Find the area of rectilinear shapes by counting squares. *Know area is a measure of surface within a given boundary*