

Princess May Primary School

Maths Curriculum Overview: Reception



Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
	Early mathematical experiences				Pattern and early number		Numbers within 6		Addition and subtraction within 6	Measures	Shape and sorting
	- Classifying objects based on one attribute - Matching equal and unequal sets - Comparing objects and sets - Ordering objects and sets				- Recognise, describe, copy and extend colour and size patterns - Count and represent the numbers 1 to 3 - Estimate and check by counting		- Count up to six objects. - One more or one fewer - Order numbers 1 – 6 - Conservation of numbers within six		- Explore zero - Explore addition and subtraction	Estimate, order compare, discuss and explore capacity, weight and lengths	- Describe, and sort 3-D shapes - Describe position accurately

Spring	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	Numbers within 10		Calendar and time	Addition and subtraction within 10	Grouping and sharing		Number patterns within 15		Doubling and halving	Shape and pattern
	- Count up to ten objects - Represent, order and explore numbers to ten - One more or fewer, one greater or less		- Days of the week, seasons - Sequence daily events	Explore addition as counting on and subtraction as taking away	- Counting and sharing in equal groups - Grouping into fives and tens - Relationship between grouping and sharing		- Count up to 15 objects and recognise different representations - Order and explore number patterns to 15 - One more or fewer		- Doubling and halving - Relationship between doubling and halving	- Describe and sort 2-D and 3-D shapes - Recognise, complete and create patterns

Summer	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	Securing addition and subtraction facts		Number patterns within 20		Number patterns beyond 20	Money	Measures		Exploration of patterns within number	
	- Commutativity - Explore addition and subtraction - Compare two amounts		- Count up to 10 and beyond with objects - Represent, compare and explore numbers to 20 - One more or fewer		- One more one less - Estimate and count - Grouping and sharing	- Coin recognition and values - Combinations to total 20p - Change from 10p	- Describe capacities - Compare volumes - Compare weights - Estimate, compare and order lengths		- Explore numbers and strategies - Recognise and extend patterns - Apply number, shape and measures knowledge - Count forwards and backwards	

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Maths Curriculum Overview: Year 1



Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
	Numbers to 10		Addition and subtraction within 10		Shape and patterns		Numbers to 20		Addition and subtraction within 20		
	- Represent, compare and explore numbers within 10 - One more and one less - Doubling and halving		- Represent and explain addition and subtraction - Commutativity - Addition and subtraction facts		- Identify, describe, sort and classify 2-D and 3-D shapes - Investigate repeating patterns - Use and follow instructional and positional language		- Identify, represent, compare and order numbers to 20 - Doubling and halving - One more and one less		- Represent and explain addition and subtraction strategies including 'Make Ten' - Use known facts to add and subtract		
Spring	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	
	Time		Exploring calculation strategies within 20	Numbers to 50		Addition and subtraction within 20		Fractions	Measures: Length and mass		
	- Read, write and tell the time to o'clock and half past on analogue clock - Sequencing daily activities - Whole and half turns linked to time		Model, explain and choose addition and subtraction strategies	2-digit numbers – represent, sequence, explore, compare. - Count in 2s, 5s and 10s - Describe and complete number patterns		- Illustrate, explain and link addition and subtraction with equations - Apply 'Make Ten' strategy - Use language to quantify and compare difference		- Identify $\frac{1}{2}$ and $\frac{1}{4}$ of a shape or object - Find $\frac{1}{2}$ and $\frac{1}{4}$ of a quantity	- Compare and measure lengths and mass using cm and kg - Doubling and halving		
Summer	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
	Numbers 50 to 100 and beyond		Addition and subtraction		Money		Multiplication and division			Measures: Capacity and volume	
	- Read, write, represent, compare and order numbers to 100 - One more / fewer, ten more / fewer - Identify number patterns		- Explore addition and subtraction involving 2-digit numbers and ones - Represent and explain addition and subtraction with regrouping - Investigate number bonds within 20		- Name coins and notes and understand their value - Represent the same value using different coins - Find change		- Explore arrays - Share equally into groups - Doubling - Link halving to fractions			- Compare capacities, volumes and lengths - Explore litres - Apply understanding of fractions to capacity	

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Maths Curriculum Overview: Year 2



Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Numbers within 100		Addition and subtraction of 2-digit numbers		Addition and subtraction word problems		Measures: Length		Graphs	Multiplication and division		
	- Read, write, represent, partition, compare and order numbers to 100 - Explore patterns including, odds and evens, tens and ones		- Apply number bonds to add and subtract - Represent and explain addition and subtraction of two 2-digit numbers. - Add three 1-digit numbers		- Introduction to bar models as a representation - Create, label and sketch bar models		- Draw and measure lengths in centimetres - Use <, > and = to compare and order lengths in metres and centimetres		Represent and interpret: pictograms, block diagrams, tables and tally charts.	- Explore multiplication and division through arrays - Explore division as grouping and as sharing - Connect multiplication and division facts using commutativity and inverse - Calculate the times tables of 2, 5, and 10 using different strategies		
Spring	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	
	Time		Fractions		Addition and subtraction of 2-digit numbers		Money		Face, shapes and patterns; lines and turns			
	- Tell the time on an analogue clock: quarter past, quarter to and five minute intervals - Calculate durations of time in minutes and seconds - Sequence daily events - Minutes in an hour and hours in a day		- Part-whole relationships - Fractions as part of a whole or a whole set - Relate to division - Equivalent fractions		Illustrate, represent and explain addition and subtraction involving regrouping including ‘Make Ten’, ‘Round and adjust’ and near doubles strategies		- Recognise coins and notes - Use £ and p accurately - Add and subtract amounts - Calculate change		- Explore, sort and describe 2-D shapes - Lines of symmetry in 2-D shapes - Identify 2-D shapes on 3-D shapes - Compare and sort 2-D and 3-D shapes - Use language to describe position, direction and rotation to follow a route			
Summer	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8				
	Numbers within 1000	Measures: Capacity and volume		Measures: Mass	Exploring calculation strategies		Exploring multiplicative thinking					
	- Represent in different ways - Compare using symbols - Read scales	- Read and measure temperature - Estimate, measure and understand litres and millilitres - Compare and order capacities		Weigh and compare masses in kilograms and grams	- Apply addition and subtraction strategies to solve equations - Illustrate and explain addition and subtraction using column method		- Pattern seek with multiples of 2, 3, 4 5 and 10 using an array - Use known facts to derive facts from the 3 and 4 times tables. - Connect multiplication and division facts using commutativity and inverse					

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Maths Curriculum Overview: Year 3



Autumn	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
	Number sense and exploring calculation strategies			Place value		Graphs	Addition and subtraction			Length and perimeter	
	- Read, write, order and compare numbers to 100 - Calculate mentally using known facts, round and adjust, near doubles, adding on to find the difference - Derive new facts from a known fact			- Read, write, represent, partition, order and compare 3-digit numbers - Find 10 and 100 more or less - Round to the nearest multiple of 10 and 100		Collect, interpret and present data using charts and tables	- Develop and use a range of mental calculation strategies - Illustrate and explain formal written methods – column method			- Measure, draw and compare lengths - Add and subtract lengths - Calculate perimeter	

Spring	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	Multiplication and division		Calculating with multiplication and division			Time		Fractions		
	- Understanding multiplicative relationships: commutativity and inverse - Exploring multiplication and division facts for 2, 3, 4, 5, 6, 8 and 10		- Multiply and divide by 10 - Multiply a 2-digit number by a 1-digit number - Divide 2-digit by a 1-digit - Correspondence problems			- Tell, record, write and order the time analogue and digital 12-hour, a.m., p.m. - Measure, calculate and compare durations		- Part-whole relationships - Fractions as part of a whole or a whole set and as a number - Add, subtract, compare and order fractions		

Summer	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9
	Angles and shape			Measures			Applying multiplicative thinking	Exploring calculation strategies and place value	
	- Identify angles including right angles and recognise as a quarter of a turn - Identify and draw parallel and perpendicular lines - Draw/make, classify and compare 2-D and 3-D shapes - Measure the perimeter			- Read scales with different intervals when measuring mass and volume - Weigh and compare masses and capacities with mixed units - Estimate mass and capacity			- Representing multiplication and division problems - Solve a one-step problem	- Add and subtract mentally - Find 10, 100 and 1000 more or less - Order and compare beyond 1000 - Round numbers	

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Maths Curriculum Overview: Year 4



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Autumn	Reasoning with large numbers		Addition and subtraction			Multiplication and division				Discrete and continuous data	
	4-digit place value. Read, write, represent, order and compare - Find 10, 100 or 1000 more or less - Round numbers to the nearest 10, 100 or 1000		- Select appropriate strategies to add and subtract - Illustrate and explain appropriate addition and subtraction strategies including column method with regrouping			- Identify and explore patterns in multiplication tables including 7 and 9 - Distributive property including multiplying three 1-digit numbers - Mental multiplication and division strategies using place value and known and derived facts - Short multiplication				- Read, interpret and construct pictograms, bar charts and time graphs - Compare tables, pictograms and bar charts	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Spring	Calculating with multiplication and division		Fractions			Time		Decimals		Area and perimeter	
	- Division using partitioning - Short division		- Explore different interpretations and representations of fractions - Equivalent fractions - Represent fractions greater than one as mixed number and improper fractions - Add and subtract fractions with the same denominator including fractions greater than one			- Analogue to digital, 12-hour and 24-hour - Convert between units of time		- Decimal equivalents to tenths, quarters and halves - Compare and order numbers with same number of decimal places - Multiply and divide by 10 and 100 including decimals		- Perimeter of rectangles and rectilinear shapes - Area of rectangles and rectilinear shapes - Investigate area and perimeter	
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Summer	Solving measures and money problems			Shape and symmetry		Position and direction		Reasoning with pattern and sequences		3-D shape	
	- Convert units of measure - Select appropriate units to measure - Use strategies to investigate problems: trial and improvement, organising using lists and tables, working systematically			- Classify, compare and order angles - Compare and classify 2-D shapes - Identify lines of symmetry		- Describe and plot using coordinates - Describe translations		- Roman numerals up to 100 - Place value of other number systems - Number sequences and patterns		- Use understanding of 3-D shapes - Identify 3-D shapes from 2-D representations	

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Maths Curriculum Overview: Year 5



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Autumn	Reasoning with large whole integers		Integer addition and subtraction		Line graphs and timetables		Multiplication and division			Perimeter and area
	- Read, write, order and compare numbers up to one million - Round numbers within one million to the nearest multiple of powers of ten - Read Roman numerals up to M		- Use rounding to estimate - Use a range of mental calculation strategies to add and subtract integers - Illustrate and explain the written method of column addition and subtraction - Select efficient calculation strategies		- Complete, read and interpret data presented in line graphs - Read and interpret timetables including calculating intervals		- Identify multiples and factors - Investigate prime numbers - Multiply and divide by 10, 100 and 1000 (integers) - Multiply and divide using derived facts - Use written methods to multiply and divide - Use a range of mental calculation strategies			- Investigate area and perimeter of rectilinear shapes - Estimate area of non-rectilinear shapes
Spring	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	Fractions and decimals			Angles		Fractions and percentages			Transformations	
	- Read, write, order and compare decimals - Round decimals to the nearest whole number - Represent, identify, name, write, order and compare fractions (including improper and mixed numbers) - Calculate fractions of amounts			- Classify, compare and order angles - Measure and draw angles with a protractor - Understand and use angle facts to calculate missing angles		- Add, subtract fractions with denominators that are multiples of the same number - Multiply fractions (and mixed numbers) by a whole number - Explore percentage, decimal, fractions equivalence			- Coordinates in all four quadrants - Translation and reflection - Calculate intervals across zero as a context for negative numbers	
Summer	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	Converting units of measure		Calculating with whole numbers and decimals			2-D and 3-D shape		Volume	Problem solving	
	- Convert between metric units of length, mass and capacity and units of time - Know and use approximate conversion between imperial and metric		- Mental strategies to add and subtract involving decimals - Formal written strategies to add, subtract and multiply involving decimals - Multiply and divide decimal numbers by ten, 100 and 1,000 - Derive addition, subtraction and multiplication facts involving decimals			- Classify 2-D shapes and reason about regular and irregular polygons - Properties of diagonals of quadrilaterals - Classify 3-D shapes 2-D representations of 3-D shapes.		- Use cube numbers and notation - Estimate volume - Convert units of volume	- Negative numbers and calculating intervals across zero - Calculating the mean - Interpret remainders - Investigate numbers: consecutive, palindromic, multiples	

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Maths Curriculum Overview: Year 6



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Integers and decimals		Multiplication and division			Calculation problems		Fractions and decimals			Percentages	Revision and consolidation time
	- Represent, read, write, order and compare numbers up to ten million - Round numbers, make estimates and use this to solve problems in context - Solve multi-step problems		- Identify and use properties of number, focusing on primes - Multiply larger integers and decimal numbers - Divide integers by 1-digit and 2-digit numbers representing remainders appropriately			- Use of brackets - Use knowledge of the order of operations to carry out calculations - Generate and describe linear number sequences - Express missing number problems algebraically - Solve equations with unknown values		- Deepen understanding of equivalence - Order, simplify and compare fractions, including those greater than one - Recall equivalence between common fractions and decimals - Find decimal quotients using short division - Add and subtract fractions - Represent multiplication involving fractions - Multiply two proper fractions - Divide a fraction by an integer			- Calculate and compare percentages of amounts - Connect percentages with fractions - Explore the equivalence	
Spring	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Decimals and measures			Angles and properties of shape		Position and direction	Statistics	Proportion problems		Revision and consolidation time		
	- Use, read, write and convert between standard units of measures; length, mass, time, money and volume as well as imperial units - Calculate the area of parallelograms and triangles - Calculate, estimate and compare the volume of cuboids			- Compare and classify a range of geometric shapes - Use angle facts to find unknown angles - Recognise and construct 3-D shapes - Name parts of a circle		- Draw a range of geometric shapes using given dimensions and angles - Describe, draw, translate and reflect shapes on a co-ordinate plane	- Calculate the mean - Construct and interpret lines graphs and pie charts - Compare pie charts	- Use fractions to express proportion - Identify ratio as a relationship between quantities and as a scale factor - Unequal sharing involving ratio				
Summer	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
	Revision and consolidation time			Optional post-SATs units of work								