

Mathematics Mastery Unit-Video Pairings

This document details the videos we think are most appropriate for each Mathematics Mastery unit. We recommend releasing **one video every fortnight**, to allow parents time to watch and complete the activities with their child. Please choose the video you feel is most appropriate for your pupils.

Reception

The Maths with Parents videos in Reception focus on composition of numbers to 10. Whilst the Mathematics Mastery Programme of Study goes beyond this, we believe it is helpful for parents to continue to embed an understanding of the foundations of number.

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Numbers within 10	<ul style="list-style-type: none"> Number 4 	<ul style="list-style-type: none"> Sticks/pencils to make squares and rectangles Objects to use as counters
		<ul style="list-style-type: none"> Numbers within 4 	<ul style="list-style-type: none"> Number cards PDF Teddies and paper to make hats
		<ul style="list-style-type: none"> Number 5 	<ul style="list-style-type: none"> Play dough or alternative Paints/sauces Grapes/pasta
	Addition and subtraction within 10	<ul style="list-style-type: none"> Numbers within 5 	<ul style="list-style-type: none"> Number cards PDF Currant buns PDF Paints/sauces
		<ul style="list-style-type: none"> Number 6 	<ul style="list-style-type: none"> Insect PDF Empty egg box
		<ul style="list-style-type: none"> Numbers within 6 	<ul style="list-style-type: none"> Number cards PDF Beanbags/paper balls
	Numbers within 15	<ul style="list-style-type: none"> Number 7 	<ul style="list-style-type: none"> Objects to count to 7
		<ul style="list-style-type: none"> Numbers within 7 	<ul style="list-style-type: none"> Number cards PDF Teddies, dolls or action figures
	Grouping and sharing	<ul style="list-style-type: none"> Sharing fairly 	<ul style="list-style-type: none"> Teddy bear's picnic materials Banana
	Numbers within 20	<ul style="list-style-type: none"> Number 8 	<ul style="list-style-type: none"> Octopus PDF
<ul style="list-style-type: none"> Numbers within 8 		<ul style="list-style-type: none"> Numbers cards PDF Eight empty bottles and a bowling ball 	

Summer term	Double and half	<ul style="list-style-type: none"> • Double and half 	
	Shape and pattern	<ul style="list-style-type: none"> • ABC 	
		<ul style="list-style-type: none"> • Properties of shape 	<ul style="list-style-type: none"> • Fruit/veg in a bag
		<ul style="list-style-type: none"> • Patterns in a loop 	<ul style="list-style-type: none"> • Sticks/leaves for making patterns
	Addition and subtraction within 20	<ul style="list-style-type: none"> • Number 9 	<ul style="list-style-type: none"> • Objects to count to 9
		<ul style="list-style-type: none"> • Numbers within 9 	<ul style="list-style-type: none"> • Number cards PDF • Beanbags/paper balls
	Money	<ul style="list-style-type: none"> • Exploring money 	<ul style="list-style-type: none"> • Different denominations of coin or cut-outs
	Measures	<ul style="list-style-type: none"> • Size and number of units 	<ul style="list-style-type: none"> • A jug and cup or similar
		<ul style="list-style-type: none"> • Estimating and predicting 	<ul style="list-style-type: none"> • A bowl • Pencil and paper
	Depth of numbers within 20	<ul style="list-style-type: none"> • Number 10 	<ul style="list-style-type: none"> • Paints/sauces • Objects to count to 10
<ul style="list-style-type: none"> • Numbers within 10 		<ul style="list-style-type: none"> • Number cards PDF • 10 empty bottles 	
Numbers beyond 20	<ul style="list-style-type: none"> • One fewer by counting 	<ul style="list-style-type: none"> • 5 Speckled Frogs PDF • Teddies, dolls or action figures 	
	<ul style="list-style-type: none"> • One more by counting 	<ul style="list-style-type: none"> • Elephants out to play PDF • Teddies, dolls or action figures 	

Year 1

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Time	<ul style="list-style-type: none"> • O'clock and half past 	<ul style="list-style-type: none"> • Clock PDF
	Exploring calculation strategies within 20	<ul style="list-style-type: none"> • Solving addition and subtraction problems 	
	Numbers to 50	<ul style="list-style-type: none"> • 2-digit place value 	<ul style="list-style-type: none"> • 100 counters
	Addition and subtraction within 20	<ul style="list-style-type: none"> • Addition and subtraction of 1s or 10 	<ul style="list-style-type: none"> • A bead string (or resources to make one)

	Fractions	<ul style="list-style-type: none"> Halves and quarters 	<ul style="list-style-type: none"> Teddy bear's picnic items Shape template PDF
	Measures (1): Length and mass	<ul style="list-style-type: none"> Introduction to length 	<ul style="list-style-type: none"> Counters for measuring
		<ul style="list-style-type: none"> Introduction to mass 	<ul style="list-style-type: none"> Dry pasta Small kitchen objects Ingredients to weigh
Summer term	Numbers 50 to 100 and beyond	<ul style="list-style-type: none"> Ordering and comparing 2-digit numbers 	<ul style="list-style-type: none"> Number line PDF
	Addition and subtraction	<ul style="list-style-type: none"> Addition and subtraction of 1s, with regrouping 	<ul style="list-style-type: none"> Resources to make a bead string 100 counters
		<ul style="list-style-type: none"> Number bonds that equal 20 	<ul style="list-style-type: none"> Paper or post-it notes to create number cards
	Money	<ul style="list-style-type: none"> Introduction to money 	<ul style="list-style-type: none"> 100 pennies OR pennies PDF
	Multiplication and division	<ul style="list-style-type: none"> Multiplication by repeated addition 	<ul style="list-style-type: none"> Sticks, straws or pens Items to use as counters
		<ul style="list-style-type: none"> Division by sharing 	<ul style="list-style-type: none"> 24 sticks (or straws or pencils) Items to use as counters
Measures (2): Capacity and volume	<ul style="list-style-type: none"> Introduction to volume and capacity 	<ul style="list-style-type: none"> 5 glasses or cups Different sized cups/jugs 	

Year 2

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Time	<ul style="list-style-type: none"> Time to the nearest 5 minutes 	<ul style="list-style-type: none"> Analogue clock PDF
	Fractions	<ul style="list-style-type: none"> Fractions of quantity and shape 	
	Addition and subtraction of 2-digit numbers	<ul style="list-style-type: none"> Addition and subtraction of 10s and 1s, with regrouping 	<ul style="list-style-type: none"> Column cards PDF
		<ul style="list-style-type: none"> Addition and subtraction of near multiples 	
Money	<ul style="list-style-type: none"> Money – change 		

Summer term	Face, shapes and patterns; lines and turns	<ul style="list-style-type: none"> • Properties of 2-D and 3-D shapes 	<ul style="list-style-type: none"> • Recyclable household objects to build a spaceship
	Numbers within 1000	<ul style="list-style-type: none"> • 3-digit place value 	
	Measures: capacity and volume	<ul style="list-style-type: none"> • Measuring capacity and volume 	<ul style="list-style-type: none"> • Measuring jug
	Measures: mass	<ul style="list-style-type: none"> • Measuring mass 	<ul style="list-style-type: none"> • Weighing scales
	Exploring calculation strategies	<ul style="list-style-type: none"> • 2-digit column addition, with regrouping 	
		<ul style="list-style-type: none"> • 2-digit column subtraction, with regrouping 	
Multiplication and Division: 3 and 4	<ul style="list-style-type: none"> • Multiplication and division word problems using bar models 	<ul style="list-style-type: none"> • 24 counters 	

Year 3

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Multiplication and division	<ul style="list-style-type: none"> • Fact families for multiplication and division 	<ul style="list-style-type: none"> • Counters • Fact Family Snap PDF
	Deriving multiplication and division facts	<ul style="list-style-type: none"> • Multiplication and division by 10 	
		<ul style="list-style-type: none"> • Multiplication of 2 digit numbers by 3 and 4 	
	Time	<ul style="list-style-type: none"> • Telling the time to the nearest minute 	<ul style="list-style-type: none"> • Clock Face PDF
	Fractions	<ul style="list-style-type: none"> • Unit fractions of quantities 	<ul style="list-style-type: none"> • Biscuits and decorations
		<ul style="list-style-type: none"> • Ordering fractions 	<ul style="list-style-type: none"> • Fractions Top Trumps PDF
Summer term	Angles and shapes	<ul style="list-style-type: none"> • Introduction to angles • Perpendicular and parallel lines 	<ul style="list-style-type: none"> • Card/paper and scissors
	Measures	<ul style="list-style-type: none"> • Measuring and comparing mass 	

		<ul style="list-style-type: none"> Measuring and comparing volume 	<ul style="list-style-type: none"> Bottles Juice
	Securing multiplication and division	<ul style="list-style-type: none"> Exploring the 3 and 6 multiplication tables 	<ul style="list-style-type: none"> Counters 3 and 6 times table snap PDF
	Exploring calculation strategies and place value	<ul style="list-style-type: none"> 4 digit place value 	

Year 4

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Securing multiplication facts	<ul style="list-style-type: none"> Exploring the 2, 4 and 8 multiplication tables 	<ul style="list-style-type: none"> Double or half PDF Counters
	Fractions	<ul style="list-style-type: none"> Equivalent fractions and simplifying 	<ul style="list-style-type: none"> Snap! PDF
		<ul style="list-style-type: none"> Improper fractions 	<ul style="list-style-type: none"> Pens and paper
	Time	<ul style="list-style-type: none"> Understanding the 24 hour clock 	<ul style="list-style-type: none"> Pairs! PDF
	Decimals	<ul style="list-style-type: none"> Place value with tenths 	<ul style="list-style-type: none"> Paper and pens
<ul style="list-style-type: none"> Rounding decimals to the nearest whole number 		<ul style="list-style-type: none"> Rounding Pairs PDF 	
Area and perimeter	<ul style="list-style-type: none"> Area of rectangles by counting squares 	<ul style="list-style-type: none"> Post-it notes or squares of paper 	
Summer term	Solving measure and money problems	<ul style="list-style-type: none"> Converting measures, with decimals 	<ul style="list-style-type: none"> Pairs! PDF
	Shape and symmetry	<ul style="list-style-type: none"> Line symmetry 	
	Position and direction	<ul style="list-style-type: none"> Plot coordinates and translate 	<ul style="list-style-type: none"> Battleships PDF
	Reasoning with patterns and sequences	<ul style="list-style-type: none"> Roman numerals to 100 	<ul style="list-style-type: none"> Pens, pencils, dry spaghetti or similar to practise making Roman numerals Roman Bingo PDF
	3-D shape	<ul style="list-style-type: none"> Teacher's choice based on need 	

Year 5

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Fractions and decimals	<ul style="list-style-type: none"> Place value with thousandths 	<ul style="list-style-type: none"> Ingredients for baking activity (alternatively, families can work out the measurements without making the recipe)
		<ul style="list-style-type: none"> Converting between mixed and improper fractions 	
	Angles	<ul style="list-style-type: none"> Acute, obtuse and reflex angles in degrees 	<ul style="list-style-type: none"> Paper, pencil, scissors
	Fractions and percentages	<ul style="list-style-type: none"> Introduction to percentages 	<ul style="list-style-type: none"> Percentage Puzzle PDF
	Transformations	<ul style="list-style-type: none"> Translation and reflection on a coordinate grid 	<ul style="list-style-type: none"> Coordinate Grid PDF
Summer term	Converting units of measure	<ul style="list-style-type: none"> Converting lengths 	<ul style="list-style-type: none"> A tape measure or long ruler and sticky notes
	Calculating with whole numbers and decimals	<ul style="list-style-type: none"> Column addition with decimals 	
		<ul style="list-style-type: none"> Column subtraction with decimals 	
	2-D and 3-D shape	<ul style="list-style-type: none"> Regular and irregular 2-D shapes 	<ul style="list-style-type: none"> Pen and paper Ruler and protractor
	Volume	<ul style="list-style-type: none"> Estimating volume and capacity 	<ul style="list-style-type: none"> Different sized containers, i.e. jugs, bowls, glasses
Problem solving	<ul style="list-style-type: none"> Negative numbers in context. 	<ul style="list-style-type: none"> Snakes and Ladders PDF 	

Year 6

	Mathematics Mastery Unit	Suggested Maths with Parents video(s)	Resources needed
Spring term	Coordinates and shape	<ul style="list-style-type: none"> Coordinates 	<ul style="list-style-type: none"> Coordinate Bingo PDF
	Fractions	<ul style="list-style-type: none"> Multiplication of fractions 	

Decimals and measures	<ul style="list-style-type: none">Teacher's choice based on needs	
Percentages and statistics	<ul style="list-style-type: none">Fraction, decimal and percentage equivalents	<ul style="list-style-type: none">Fraction Match PDF
Proportion problems	<ul style="list-style-type: none">Introduction to ratio and proportion	