



Pupil Assessment Tracker
Mathematics

Name:

Year 1	Yellow
Year 2	Orange
Year 3	Green
Year 4	Blue

Autumn	Underline
Spring	Cross hatch
Summer	Highlight

Year 1- 4			
Maths Raw Score/ Maths Standardised Score / Maths Age			
Year 1 Autumn		Year 3 Autumn	
Year 1 Spring		Year 3 Spring	
Year 1 Summer		Year 3 Summer	
Year 2 Autumn		Year 4 Autumn	
Year 2 Spring		Year 4 Spring	
Year 2 SATS		Year 4 Summer	

Year 1 Mathematics

(Numbered bold statement reference Can Do KPI, italic writing references DfE Mathematics Guidance, purple text are topics which are not included in the DfE guidance but is part of the National Curriculum.)

Number – number and place value	Number- addition and subtraction	Number – multiplication and division	Number - fractions	Measurement	Geometry – properties of shape	Geometry – position and direction
1. Count up to 30. <i>1NPV-1 Count within 100, forwards and backwards, starting with any number.</i> 5. Write numbers to 100 in numerals <i>1NPV-1 Count within 100, forwards and backwards, starting with any number.</i> 2. Order numbers up to 30 Numbers 0 to 5 Numbers 0 to 10 Numbers 0 to 20 <i>1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =.</i> 6. Compare and order numbers to 100 (2NPV-2)	3. Write and interpret mathematical statements +, – and = <i>1AS-2 Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.</i> 7. Identify one more and one less than a given number <i>1NPV-1 Count within 100, forwards and backwards, starting with any number.</i> 8. Represent and use number bonds within 10 (addition facts) <i>1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.</i> 9. Represent and use number bonds within 10 (subtraction facts) <i>1NF-1 Develop fluency in addition and subtraction facts within 10.</i> 11 & 12 Represent and use number bonds for 11 to 16 (addition & subtraction facts) (2AS-1) 14 & 15. Represent and use number bonds within 20 (addition & subtraction facts) (2AS-1) 19. Add and subtract 1 and 2-digit numbers up to 20 (2AS-1, 2AS-3/4)	22. Represent multiplication using concrete objects and pictorial representations (2MD-1) 23. Represent division using concrete objects and pictorial representations (2MD-2)	16. Recognise and find one half (3F-1) 17. Recognise and find one quarter (3F-1)	13. Measure length and height 20. Know the days of the week and months of the year 21. Tell the time to the hour and half past 24. Recognise and know the value of different denominations of coins and notes Compare, describe and measure mass/weight. capacity/volume, are we teaching this?	4. Recognise rectangle, square, triangle and circle Recognise, compose, decompose and manipulate 2D and 3D shapes 10. Recognise cuboids, pyramids and spheres <i>1G-1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.</i> <i>1G-2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations.</i>	18. Use the language position, direction and movement

Year 2 Mathematics

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Number – number and place value	Number- addition and subtraction	Number – multiplication and division	Number - fractions	Measurement	Geometry – properties of shape	Geometry – position&direction	Statistics
1. Read and write 2-digit numbers <i>2NPV–1</i> <i>Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning.</i>	3 & 9 Recall and use addition and subtraction facts to 20 <i>2NF–1 Secure fluency in addition and subtraction facts, through continued practice.</i>	10. Understand how multiplication can be represented <i>2MD-1</i> <i>Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. & 2MD-2</i>	18. Recognise and find one third <i>3F-1</i>	17. Use standard units to measure length, mass and height	6. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <i>2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.</i>	13. Describe turns using right angles	23. Construct and interpret pictograms using 2s, 5s and 10s <i>(2MD-1)</i>
2. Compare and order numbers up to 100 . <i>1NPV–2</i> <i>Reason about the location of numbers within the linear number system, including comparing using < > and =. & 2NPV-2</i>	4. Find 10 more or less than a 2-digit number <i>(2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number.)</i>	11. Know that multiplication is commutative and division is not <i>4MD-2</i>	19. Recognise and find three quarters <i>3F-1</i>	20. Tell the time to quarter to/past and 5 minute intervals	<i>2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.</i>		
	5. Add two 2-digit numbers <i>2AS-3, 2AS–4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.</i>	12. Understand how division can be represented <i>2MD-2</i> Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).		21. Calculate change	<i>2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.</i>		
	7. Know that addition is commutative and subtraction is not <i>3AS-3</i>	14. Know and use multiplication facts for 2, 5 and 10 multiplication tables <i>2MD-1, 3NF-2</i>		22. Combine coins to make amounts	<i>2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.</i>		
	8. Subtract two 2-digit numbers <i>2AS–2</i> <i>Recognise the subtraction structure of ‘difference’ and answer questions of the form, ‘How many more...?’</i>	15. Know and use division facts for 2, 5 and 10 multiplication tables <i>2MD-2, 3NF-2</i>		16. Read scales in divisions of 1, 2, 5 and 10 <i>(3NPV-4 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.)</i>	<i>2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.</i>		
		24. Recall factor-factor-product relationships for 2, 5 and 10 multiplication tables <i>2MD-1, 2MD-2</i>		Temperature, capacity	Identify and describe lines of symmetry		Interpret and construct tally charts, block diagrams and simple tables.
				Sequence intervals of time Know minutes in an hour, hours in a day			

Year 3 Mathematics

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Number – number and place value	Number- addition and subtraction	Number – multiplication and division	Number – fractions	Measurement	Geometry – properties of shape	Statistics
1. Read and write 3-digit numbers. <i>3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10.</i> <i>3NPV-2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning.</i> 2. Compare and order numbers up to 1000 <i>3NPV-3 Reason about the location of any three-digit number in the linear number system,</i>	6. Add numbers with up to 3-digits mentally. 7. Subtract numbers with up to 3-digits mentally <i>3AS-1 Calculate complements to 100</i> <i>3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction.</i> 11. Add numbers with up to 3-digits using a formal written method <i>3AS-2, Add and subtract up to three-digit numbers using columnar methods.</i> <i>3NF-1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice.</i>	8. Know and use multiplication facts for 3, 4 and 8 multiplication tables <i>3NF-2, 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.</i> <i>3MD-1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.</i> 24. Recall factor-factor-product relationships for 3, 4 and 8 multiplication tables <i>3NF-2, 3MD-1</i> <i>3NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).</i>	10. Compare and order fractions with same numerator or same denominator <i>3F-3 Reason about the location of any fraction within 1 in the linear number system.</i> 17. Calculate fractions of amounts <i>3F-2 Find unit fractions of quantities using known division facts (multiplication tables fluency).</i> 18. Add and subtract fractions with the same denominator <i>3F-4 Add and subtract fractions with the same denominator, within 1.</i> <i>Non-unit fractions: identifying, representing and comparing</i> <i>Adding and subtracting within one whole</i> 4. Recognise and count in tenths (5NPV-1)	19. Tell the time to the nearest minute. 20. Calculate durations of events. 21 Measure the perimeter of shapes. (4G-2) <i>Measure, compare, add and subtract lengths, mass, volume/capacity.</i> <i>Add and subtract amounts of money.</i> <i>Tell and write time from analogue clock, including Roman numerals from I to XII and 12 hour and 24 hour clocks.</i> <i>Know the number of seconds in a minute and the number of days in each month, year and leap year.</i>	5. Recognise horizontal, vertical, perpendicular and parallel lines <i>3G-2 Draw polygons by joining marked points, and identify parallel and perpendicular sides.</i> 22. Identify angles in shapes. <i>3G-1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations.</i>	23. Interpret and present bar charts, pictograms and tables.

<i>including identifying the previous and next multiple of 100 and 10.</i> 3. Finding 10 or 100 more or less than a given number	12. Subtract numbers with up to 3-digits using a formal written method <i>3AS-2, 3NF-1</i> 13. Choose efficient methods to add and subtract numbers up to 3-digits <i>3AS-1&2, 3NF-3</i>	9. Know and use division facts for 3, 4 and 8 multiplication tables <i>3NF-2, 3MD-1</i> 14. Multiply 2-digit by 1-digit numbers mentally <i>4MD-3 Understand and apply the distributive property of multiplication.</i> 15. Divide 2-digit by 1-digit numbers mentally <i>4NF-2</i> 16. Multiply 2-digit by 1-digit numbers using a formal written method. <i>(5MD-3)</i>				
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Year 4 Mathematics

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Number – number and place value	Number- addition and subtraction	Number – multiplication and division	Number – fractions including decimals	Measurement	Geometry – properties of shape	Geometry – position and direction	Statistics
1. Read and write 4-digit numbers <i>4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.</i> <i>4NPV-2 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning.</i> 2. Compare and order numbers up to 10,000 <i>4NPV-3 Reason about the location of any four-digit number in the linear number</i>	5. Add and subtract numbers with up to 4-digits mentally. <i>4NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100).</i> 8. Add and subtract numbers with up to 4-digits using a formal written method (3AS-2) 11.Choose efficient methods to add and subtract numbers up to 4-digits 3AS-3,3NF-3	6. Know and use multiplication facts for 6, 7 and 9 multiplication tables. 7. Know and use division facts for 6, 7 and 9 multiplication tables. <i>4NF-1</i> 9. Know and use multiplication facts for 11 and 12 multiplication tables <i>4NF-1</i> 10. Know and use division facts for 11 and 12 multiplication tables <i>4NF-1</i> 20. Recall factor-factor-product relationships for 6,7,9,11 and 12 multiplication tables <i>4NF-1</i> <i>4NF-1 Recall multiplication and division facts up to 12×12, and recognise products in multiplication tables as multiples of the corresponding number.</i> 12. Multiply 2-digit by a 1-digit using the distributive law <i>4MD-3</i> <i>Understand and apply the distributive property of multiplication.</i>	18. Add and subtract fractions with the same denominator beyond the whole <i>4F-3 Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.</i> <i>Working across one whole: improper fractions and mixed numbers</i> 19 Find families of equivalent fractions <i>5F-2</i> 21. Add and subtract decimal numbers (up to 2 decimal places) including measures and money	22. Find the area of rectilinear shapes by counting squares (5G-2) 24. Convert between analogue and digital 12 and 24-hour clocks and other units of time <i>Convert between different unit measures. (km to m, hr to min)</i>	4. Classify quadrilaterals <i>4G-3 Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry.</i> 16. Identify acute and obtuse angles (3G-1) <i>4G-2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons.</i>	23. Describe and plot positions on a 2-D grid as coordinates in the first quadrant . <i>4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.</i>	<i>Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.</i> <i>Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</i>

<i>system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.</i> 3. Round any number up to 4-digits to the nearest 10, 100 or 1000. 4NPV-3 Count in multiples of 6,7,9,25 and 1000. Read Roman numerals to 100 (I TO C)		13. Multiply 3-digit by a 1-digit using a formal written method 5MD-3 14. Divide a 3-digit by a 1-digit number 5MD-3 4NF-2 <i>Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders.</i> 15. Use place value, known and derived facts to multiply and divide mentally 4NF-3 <i>Apply place-value knowledge to known additive and multiplicative number facts</i> <i>Connecting multiplication and division, and the distributive law</i> <i>Calculation: multiplying and dividing by 10 or 100</i> 17. Divide 1 and 2-digit numbers by 10 and 100. 5NPV-1, 5NPV-2					
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Areas to have been achieved by year and term.

	Year 1	Year 2	Year 3	Year 4
Autumn 1	1. Count up to 30 2. Order numbers up to 30 3. Write and interpret mathematical statements +, – and = 4. Recognise rectangle, square, triangle and circle	1. Read and write 2-digit numbers 2. Compare and order numbers up to 100 3. Recall and use addition facts to 10 4. Find 10 more or less than a 2-digit number 5. Add two 2-digit numbers 6. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces	1. Read and write 3-digit numbers 2. Compare and order numbers up to 1000 3. Finding 10 or 100 more or less than a given number 4. Recognise and count in tenths 5. Recognise horizontal, vertical, perpendicular and parallel lines	1. Read and write 4-digit numbers 2. Compare and order numbers up to 10,000 3. Round any number up to 4-digits to the nearest 10, 100 or 1000 4. Classify quadrilaterals
Autumn 2	5. Write numbers to 100 in numerals 6. Compare and order numbers to 100 7. Identify one more and one less than a given number 8. Represent and use number bonds within 10 (addition facts) 9. Represent and use number bonds within 10 (subtraction facts) 10. Recognise cuboids, pyramids and spheres	7. Know that addition is commutative and subtraction is not 8. Subtract two 2-digit numbers 9. Recall and use subtraction facts to 10 10. Understand how multiplication can be represented 11. Know that multiplication is commutative and division is not 12. Understand how division can be represented 13. Describe turns using right angles	6. Add numbers with up to 3-digits mentally 7. Subtract numbers with up to 3-digits mentally 8. Know and use multiplication facts for 3, 4 and 8 multiplication tables 9. Know and use division facts for 3, 4 and 8 multiplication tables	5. Add and subtract numbers with up to 4-digits mentally 6. Know and use multiplication facts for 6, 7 and 9 multiplication tables 7. Know and use division facts for 6, 7 and 9 multiplication tables 6. Add and subtract whole numbers with more than 4 digits choosing efficient methods 7. Add and subtract decimals with up to 3 decimal places choosing efficient methods 8. Multiply and divide
Spring 1	11. Represent and use number bonds for 11 to 16 (addition facts) 12. Represent and use number bonds for 11 to 16 (subtraction facts) 13. Measure length and	14. Know and use multiplication facts for 2, 5 and 10 multiplication tables 15. Know and use division facts for 2, 5 and 10 multiplication tables 16. Read scales in divisions of 1, 2, 5 and 10 17. Use standard units to	10. Compare and order fractions with same numerator or same denominator 11. Add numbers with up to 3-digits using a formal written method 12. Subtract numbers with up to 3-digits	8. Add and subtract numbers with up to 4-digits using a formal written method 9. Know and use multiplication facts for 11 and 12 multiplication tables 10. Know and use division facts for 11

	height	measure length, mass and height	using a formal written method 13. Choose efficient methods to add and subtract numbers up to 3-digits	and 12 multiplication tables 11. Choose efficient methods to add and subtract numbers up to 4-digits
Spring 2	14. Represent and use number bonds within 20 (addition facts) 15. Represent and use number bonds within 20 (subtraction facts) 16. Recognise and find one half 17. Recognise and find one quarter 18. Use the language position, direction and movement	18. Recognise and find one third 19. Recognise and find three quarters 20. Tell the time to quarter to/past and 5 minute intervals 21. Calculate change 22. Combine coins to make amounts	14. Multiply 2-digit by 1-digit numbers mentally 15. Divide 2-digit by 1-digit numbers mentally 16. Multiply 2-digit by 1-digit numbers using a formal written method	12. Multiply 2-digit by a 1-digit using the distributive law 13. Multiply 3-digit by a 1-digit using a formal written method 14. Divide a 3-digit by a 1-digit number 15. Use place value, known and derived facts to multiply and divide mentally 16. Identify acute and obtuse angles
Summer 1	19. Add and subtract 1 and 2-digit numbers up to 20 20. Know the days of the week and months of the year 21. Tell the time to the hour and half past	23. Construct and interpret pictograms using 2s, 5s and 10s 24. Recall factor-factor-product relationships for 2, 5 and 10 multiplication tables	17. Calculate fractions of amounts 18. Add and subtract fractions with the same denominator 19. Tell the time to the nearest minute 20. Calculate durations of events	17. Divide 1 and 2-digit numbers by 10 and 100 18. Add and subtract fractions with the same denominator beyond the whole 19. Find families of equivalent fractions 20. Recall factor-factor-product relationships for 6,7,9,11 and 12 multiplication tables
Summer 2	22. Represent multiplication using concrete objects and pictorial representations 23. Represent division using concrete objects and pictorial representations 24. Recognise and know the value of different denominations of coins and notes		21. Measure the perimeter of shapes 22. Identify angles in shapes 23. Interpret bar charts 24. Recall factor-factor-product relationships for 3, 4 and 8 multiplication tables	21. Add and subtract decimal numbers (up to 2 decimal places) including measures and money 22. Find the area of rectilinear shapes by counting squares 23. Describe and plot positions on a 2-D grid as coordinates in the first quadrant 24. Convert between analogue and digital 12 and 24-hour clocks and other units of time