Mathematics Mastery

Year 1 Programme of Study - *'Term per page overview' 2018-19*

Term		National Curriculum requirements
Autumn	**1. Numbers to 10** **(2 weeks)**	• count to ten, forwards and backwards, beginning with 0 or 1, or from any given number • count, read and write numbers to 10 in numerals and words • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • given a number, identify one more and one less • count in multiples of two • double and halve numbers within 10 • estimate numbers within 10
	2. Addition and subtraction within 10 **(Combination and partitioning)** **(2 weeks)**	• represent and use number bonds and related subtraction facts [within 10] • add and subtract one-digit numbers [to 10], including zero • read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
	3. Shapes and patterns **(2 weeks)**	• recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]; 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] • describe position, direction and movement, including whole and half turns
	4. Numbers to 20 **(2 weeks)**	• count to twenty, forwards and backwards, beginning with 0 or 1, or from any given number • count, read and write numbers from 1 to 20 in numerals and words • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • count in multiples of two and five • double and halve numbers within 20
	5. Addition and subtraction within 20 **(Augmentation and reduction)** **(2 weeks)**	• represent and use number bonds and related subtraction facts within 20 • add and subtract one-digit and two-digit numbers to 20, including zero • read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ • estimate to check answers

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Spring	**6. Time** **(2 weeks)**	• tell the time to the hour and half past the hour and draw the hands on a clock face to show these times • recognise and use language relating to dates, including days of the week, weeks, months and years • compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] and measure and begin to record time (hours, minutes, seconds • sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] • describe position, direction and movement, including whole, half, quarter and three-quarter turns, with reference to the clock face
	7. Exploring calculation strategies within 20 **(1 week)**	• represent and use number bonds and related subtraction facts within 20 • add and subtract one-digit and two-digit numbers to 20, including zero • read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square − 9$
	8. Numbers to 50 **(2 weeks)**	• count to fifty, forwards and backwards, beginning with 0 or 1, or from any given number; count in multiples of two, five and ten. • count, read and write numbers from 1 to 20 in numerals and words • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • given a number, identify one more and one less • recognise the place value of each digit in a two-digit number (tens, ones) (Y2)
	9. Addition and subtraction within 20 **(Comparison and difference)** **(2 weeks)**	• represent and use number bonds and related subtraction facts within 20 • add and subtract one-digit and two-digit numbers to 20, including zero • add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; adding three one-digit numbers (Y2) • read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square − 9$ • estimate to check answers
	10. Fractions (1 week)	• recognise, find and name a half as one of two equal parts of an object, shape or quantity • recognise, find and name a quarter as one of four equal parts of an object, shape or quantity
	11. Measures (1): Length and mass **(2 weeks)**	• compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]; mass/weight [for example, heavy/light, heavier than, lighter than] • measure and begin to record the following: lengths and heights; mass/weight

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Summer	12. Numbers 50 to 100 and beyond (2 weeks)	• count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number; count on and back in two, five and ten. • count, read and write numbers from 1 to 20 in numerals and words; read and write numbers to at least 100 in numerals • given a number, identify one more and one less • identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least • recognise the place value of each digit in a two-digit number (tens, ones) (Y2)
	13. Addition and subtraction (Applying strategies and structures) (2 weeks)	• represent and use number bonds and related subtraction facts within 20 • add and subtract one-digit and two-digit numbers, including zero • 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 (Y2) • read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$ • estimate to check answers
	14. Money (2 weeks)	• recognise and know the value of different denominations of coins and notes • solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \square - 9$
	15. Multiplication and division (2 weeks)	• solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher • recognise, find and name a half as one of two equal parts of a quantity • recognise, find and name a quarter as one of four equal parts of a quantity
	16. Measures (2): Capacity and volume (2 weeks)	• compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]; mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] • measure and begin to record the following: lengths and heights; mass/weight; capacity and volume