Lees Primary - Mental Arithmetic Progression Document

Reception

Term	Rapid Recall and counting	Facts to learn, linked with White Rose Maths	Calculation mentally
Reception Autumn	Saying numbers: to 10 Reading numbers: to 10 Core numbers: Understanding numbers to 10 Counting: Count up to 10 objects, count on and count back in ones.	1:1 counting. Counting in steps of 1 from any given number. **WRM links:** • Represent 1,2 &3 • Compare 1,2&3 • Making simple patterns • Time	•
Reception Spring	Saying numbers: to 20 Reading numbers: to 20 Core numbers: Understanding numbers to 10 Counting: Count up to 20 objects, count on and count back in ones.	Doubling 1 digit numbers. 1+1=2, 2+2 = 4, 3+3=6, 4+4 = 8, 5+5 = 10 Count in multiples of 2 and 10. **WRM links:** • Comparing Numbers to 5 • Making Pairs and groups (up to 10) • Comparing Numbers to 10 • Bonds to 10 • Time	Addition: Know when you may need to add more. Know how to find the total. Subtraction: Know when to take some away and to count how many are left. Division: Know how to share objects fairly.

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Reception Summer	Saying numbers: to 30 Reading numbers: to 30 Core numbers: Understanding numbers to 20 Counting: Count up to 30 objects, count on and count back in ones. Counting on: Count on & back 2,3, 4 or 5.	Being able to swap objects e.g. If 2 + 2 = 4 then 2 cats + 2 cats=4 cats 2 pens + 2 pens = 4 pens Number bonds to 10 Count in multiples of 5. **WRM Links:** • Making estimations, checking and counting • Compare using more or fewer toi compare objects to 20. • Find one more or less than a given number. • Simple Money problems	Addition: Add the right amount and find how many altogether. Subtraction: Take away the right amount and count how many are left. Multiplication: Set out groups of toys. Find the total amount of toys. Division: Share an even amount. Count how many toys each person has been given. Halve even numbers of objects. Share 6,9,12 or 15 objects between three people.

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Year 1

Term	Rapid Recall and counting	Facts to learn (linked with) White Rose Maths	Calculation mentally
Year 1 Autumn	Saying numbers: to 100 Reading numbers: multiples of 10 Core numbers: Recap- Understand numbers to 20 Counting: Count from any number forwards and backwards in multiples of 1's and 2's	Fact families – knowing that 2 + 8 = 8 + 2 Number bonds within 10 e.g 4 + 3 =7 7-3 =4 Number bonds within 20. e.g. 6 + 8 = 14 14 – 8 = 6 Jigsaw numbers – finding the missing piece to 10 – number bonds WRM Links: • Counting forwards and backwards • Count one more/one less • Order groups of objects • Use a number line to make greater than/less than calculations.	Addition and Subtraction: Add or subtract a single digit from a single digit without crossing 10. Add or subtract a single digit to or from 10.
Year 1 Spring	Saying numbers: to 100 Reading numbers: multiples of 10 and 2 digit numbers Core numbers: Understanding numbers to 50 Counting: Count from any number	Doubling and halving 2digit multiples of 10 including half of 30, 50, 70 and 90. Fact families – knowing that 2 + 8 = 8 + 2 Add 9 to single-digit numbers by adding 10 and then subtracting 1 e.g. 9 + 4 = 10 + 4= 14 14-1=13 Recognise 2-digit multiples of 2, 5 and 10.	Addition and Subtraction : Read a number sentence, arrange a number sentence, solve a number sentence, solve addition or subtraction on a numberline Multiplication and Division: Recap: Set out groups of blocks and find the total amount of blocks

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	forwards and backwards in multiples of 2's and 10's	Know odd and even numbers WRM Links: • Part-whole models • Add by counting on within 20 • Count to 50 by making 10's • Counting in 2's and 5's. • Compare and measure lengths	Recap: Halve an even number of objects Share 6,9,12 or 15 objects between three people.
Year 1 Summer	Saying numbers: to 100 Reading numbers: to 100 Core numbers: Partition 2-digit numbers Counting: Count from any number forwards and backwards in multiples of 2's, 5's and 10's Begin to recall the 2x tables in any order e.g 2 x 3 = 6 3 x 2 = 6	Recall double of all numbers to at least 20 and corresponding halves. Identifying near doubles, using doubles already know – i.e 8 + 7 is 7 + 7 + 1 or 8 + 8 – 1 Jigsaw numbers – find the missing piece to 100. Add/ subtract 9 to single-digit numbers by adding/subtracting 10 and then subtracting/adding 1 e.g. 9 + 4 = 10 + 4= 14 14-1=13 15 – 9 = 15 – 10 = 5 5 + 1 = 6 Partition small numbers – 8 + 3 = 8 + 2 + 1 WRM Links: • Counting in 2's, 5's and 10's. • Making and adding equal groups. • Finding halves and quarters • Counting to 100 • Time – hours and half hours • Less than, greater than	Addition and Subtraction: Add and subtract 1 digit to a number within 100. Include bridging the 10 e.g 29 -30. Add or subtract 10 from any 2digit number- i.e 32 + 10 = 42 recognising patterns and the digit that changes). Multiplication and Division: Doubles of all numbers to 20 – 7 + 7 = 14 double 7 is Share 8, 12, 16 or 20 between four people. 2 times table focus

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Year 2

Term	Rapid Recall and counting	Facts to learn (linked with) White Rose Maths	Calculation mentally
Year 2 Autumn	Reading numbers: Multiples of 10 and 2-digit numbers to 100 Core numbers: Partition any 2digit number Understand numbers within 100 Counting: Recap: In multiples of 2, 5 and 10 Know by heart all addition and subtraction facts for each number up to 20. Recall the 10x table in any order	Add 10 and subtract 10 from any 2-digit number. Double 2 digit numbers, Half of 30, 50, 70, 90 Half of 300, 500, 700, 900 Jigsaw numbers – find the missing piece to 100. Fact families- turn 1digit + 1digit facts into multiples of 10. i.e 2 + 3 = 5 20 + 30 = 50 Re order numbers when adding e.g. 2 + 36 = 36 + 2 5 + 7 + 5 = 5 + 5 + 7 WRM Maths Links: • Counting and representing numbers to 100 • Tens and Ones Using Addition • Counting in 3's • Bonds to 100 • Ten more, ten less • Subtraction, crossing 10 • Adding and subtracting two digit numbers • Adding 3 one digit numbers Continue to revisit steps from Summer Year 1	Addition and Subtraction: Add or subtract a single-digit to or from any two-digit including crossing 10 e.g. 5 + 8, 12 - 7 Subtracting 10 from a multiple of 10 e.g. 70 - 10, take 10 from any 2digit number e.g. 72 - 10, take a multiple of 10 from a multiple of 10 e.g. 72 - 30 Add or subtract a single digit to or from 10 e.g. 60 + 5, 80 – 7 Multiplication and Division: Write out repeated addition, solve repeated addition as in Year 1. Set/ draw out the cubes e.g 3 lots of 2 – 2 + 2 + 2=6 Find how many altogether by counting in 2s, 5s or 10s.

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Year 2 Spring	Reading numbers: Read 2digit numbers Core numbers: Partition any 2digit number Understand numbers within 100 Counting: Count in steps of 2, 3, 5 and 10 from any given number. Count in fractions to 10 using ½ and 2/4 equivalence Recall the 5x and 2x table in any order	Double 2 numbers. Using near doubles e.g 13 + 14 is double 14 and then subtract 1 Find 10 more or 10 less than numbers to 100 Turn 1d facts into multiples of 10 e.g. 12 + 7 = 19 120 + 70 = 190 Fact families – addition/ subtraction and multiplication/division WRM Maths Links: • Multiplication sentences using X • Making equal groups (sharing & grouping) • Dividing by 2, 5, & 10. • Measure, order and compare lengths • Four operations with lengths • Counting in millimetres, litres, grams and kilograms • Four operations with mass and volume • Temperature Continue to revisit steps from previous term	Addition and Subtraction : Add or subtract a single digit number to or from a 2digit number including crossing the tens boundary – 23 + 5, 57 – 3 then 28 + 5, 57 – 8 Find what must be added to any 2digit multiple of 10 to make 100 e.g. 70 + ___ = 100 Multiplication and Division: Solve repeated addition. Arrange a division number sentence, solve a division number sentence with concrete, and pictorial methods.

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Year 2 Summer	Reading numbers: Read multiples of 100 and 3-digit numbers Core numbers: Partition any 2digit number Understand numbers within 100 Counting: Count in multiples of 3. Begin to recall the 3x table in any order	Jigsaw numbers- find the missing piece to 100. Multiply whole numbers by 10. Divide multiples of 10 by 10. (Understand place value to multiply and divide by 10 – moving digits to right to multiply by 10 and to the left to divide by 10 i.e 17 x 10 = 170 30 ÷ 10 = 3) Find the difference by calculating from the smaller to the larger number. Add 3 small numbers by putting the largest number first/ or finding a pair totalling 10 e.g. 2+6+9 becomes (8+2) + 3 = Work out missing numbers – 1 + _____ + 5 = 17 Know by heart all multiplication facts for 2, 5 and 10 tables Know all division facts for multiples of 2, 5, 10 WRM links: • Telling the time to the hour, half hour • Quarter past and quarter to • Find and compare durations of time • Temperature • Recognising ½ ¼ and 1/3 • Counting in fractions • Continue to revisit steps from previous term	Addition and Subtraction: Solve any 2digit+1digit Add any 2digit tens number to a 2digit number Know the 1digit gap from aa multiple of 10 e.g. 26 + _____ = 30 Find the 2 gaps in a 2digit-2digit 34+ _____ = 50 Jump from 34 to 40 find the gap, then jump from 40 to 50. Add the two jumps together. Multiplication and Division: Solve a 2x, 5x, 10x multiplication calculation Use table facts to find a division fact.

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Year 3

Term	Rapid Recall and counting	Facts to learn (linked with) White Rose Maths	Calculation mentally
Year 3 Autumn	Reading numbers: Read 3digit numbers Core numbers: Order and compare numbers to 1000 Partition a 3digit number Counting: Count in multiples of 3 and 4 forwards and backwards. Relate this to learning their times tables. Recall the 2x, 10x and 5x times table in any order with corresponding division facts. Recognise multiples of 2, 5 and 10 up to 1000. Know all pairs of multiples of 100 with a total of 1000. 200+800=1000	Find the difference by calculating from the smaller to the larger number e.g. 82 – 47 = 15 Reorder numbers in a calculation e.g. 12-7-2 12 – 2 -7 Know half of 300, 500, 700 and 900 Know 10 more or 100 more than numbers to 1000. **Autumn Term WRM Maths Links:** • Counting in hundreds • Numbers to 1000 • 100, 10 and 1's • Number line to 1000 • Compare and order numbers • Count in 50's • Add and subtract multiples of 100 • Add and subtract 3 digit and 1/2/3 digit numbers • Estimate answers to calculations • Multiply and Divide by 2, 3, 4, 5, 8 & 10	Addition and Subtraction: Add three of four small numbers by putting the largest number first and/ or finding pairs totalling 10. Find what must be added to any multiples of 100 to make 1000 . e.g. 300+___ = 1000 Find what must be added to/subtracted from any 2digit number to make the next higher/lower multiple of 10 e.g. 64+___ = 70 56- _____ = 50 Multiplication and Division: • Multiply and Divide by 2, 3, 4, 5, 8 & 10

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		Continue to revisit steps from Summer Year 2 and ready to progress guidance.	
Year 3 Spring	Reading numbers: Read and understand 3digit numbers Counting: Count in multiples of 4 and 8 – make the relationship between the numbers – forwards and backwards. Count in tenths- forwards and backwards –crossing whole numbers (recognising equivalents.)	Partition into tens and ones and recombine for calculating answers to exceed 100 e.g. 95 + 38 90 + 30 = 120 5 + 8 = 13 120 + 13 = 133 Know half of 3,5, 7 and 9 as fractions **Spring Term WRM Maths Links:** • Multiply 2 digits by 1 digit • Divide 2 digits by 1 digit • Divide 100 into 2, 4, 5 & 10 (equal parts) • Divide with remainders • Counting money (£ and pence and giving change) • Add and subtract money & give change • Equivalences m & cm, cm & mm • Compare lengths • Add & subtract lengths • Compare mass • Add and subtract mass	Addition and Subtraction : Add and subtract 3 digit numbers and 1 digit, 3 digit and tens, 3 digit and hundreds Take 100 from any 3digit number Find what must be added to / subtracted from any three digit number to make the next higher/lower multiple of 10 e.g. 647 + □ = 650 Multiplication and Division: Multiplying whole numbers by 10; dividing multiples of 10 by 10 Multiply single digit numbers by 10 or 100 e.g. 6 x 100 Recognise and use inverses with + and -, multiplication and division Know 3 and 4 times tables. Divide any multiple of 10 e.g. 60 ÷ 10 320÷ 10

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		• Recognising ½ ¼ and 1/3 • Counting in fractions • Counting in tenths • Fractions on a number line Continue to revisit steps from previous term	
Year 3 Summer	Reading numbers: Read 4digit numbers Core numbers: Partition a 3digit number and then a 4-digit number – make the relationship e.g. 352 (*3hundreds, 5tens, 2ones*) 9352 (9thousands, *3hundreds, 5tens, 2ones*). To recall and know by heart the Roman numerals from I to XII Counting: Count in multiples of 3, 4 and 8 forwards and backwards. Count in 1/10s and 0.1s. Facts to learn: To begin to know all timestables 12x12	Add multiples of 1000 (2000 + 3000 = 5000) Bridge through a multiple of ten and adjust – be able to do this with 3 digit numbers e.g. 149 + 32= 149 +1= 150 150 + 31=181 Double 3digit numbers i.e double 214 double 362 – use doubling model-Repeat with halving. Recognise fractions and pairs of fractions equivalent to one Calculate with fractions that have same denominator within one whole e.g. 1/7 + 2/7 = 3/7 Rounding to nearest 10 and hundred e.g. round 235 to the nearest 10 round 235 to the nearest 100 Know 2, 3, 4, 5, 8 and 10 times tables and corresponding division facts to 12. Summer Term WRM Links: • Equivalent fractions	Addition and Subtraction: Solve 3digit + 3digit Subtract any 3digit number from any 3digit number when the difference is less than 10 e.g. 458 – 451 Multiplication and Division: Know 8x table. 6x table? Use a tables fact to find a division fact (with remainder) 21 ÷ 5 = 5X 4 = 20 so its 4r1 Say or write a division statement corresponding to a given multiplication statement- fact families. e.g 8 x 4 = 32 32 ÷ 8 = 4

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		• Compare and order fractions • Add and subtract fractions • Time; half/past , quarter to, telling time to the minute and comparing durations • Measuring time in seconds • Counting money (£ and pence and giving change) • Add and subtract money & give change Continue to revisit steps from previous term	

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Year 4

Term	Rapid Recall and counting	Facts to learn	Calculation mentally
Year 4 Autumn	Reading numbers: Read 4digit numbers Core numbers: Partition and understand 4digit numbers Understand 1decimal place numbers. To read Roman numerals to 100 Counting: Count in multiples of 4, 6 and 8 from any number Count in 25's Count backwards through 0 to include negative numbers	Adding and subtracting multiples thousands Round any number to the nearest 10, 100, 1000 Multiply/divide whole numbers by 10, 100 or 1000 Know 6, 7 times tables, and corresponding division facts to 12. Know 9 and 11 times tables, and corresponding division facts to 12. **Autumn Term WRM Maths Links:** Round nearest 10,100,1000 Number line to 10,000 Roman Numerals Add/subtract 2 four-digit numbers Add and subtract lengths (including perimeter) Multiply and divide x tables 6, 9,7,11,12 Multiply by 1 and 0 Multiply 3 numbers **Use Ready to Progress Maths Guidance and previous year Arithmetic Progression Doc to consolidate.**	Addition and Subtraction: Add subtract 1, 10, 100 & 1000 Find what must be added to any three digit number to make 1000 – jigsaw numbers 372 +____ = 1000 Find out what must be added to/ subtract from any 2-digit or 3-digit number to make the next higher/lower multiples of 100 e.g. 374 + ___ = 400 826 - ____ = 800 Find 1,000 more or less than a given number **Estimating answers and checking strategies** Multiplication and Division: Double any multiple of 10 to 500 e.g. 380x2 and find all corresponding halves e.g. 760 ÷ 2 130 ÷ 2. Multiply and divide by 10 and 100 Multiply and divide by 6,7 &9.
Year 4 Spring	Reading numbers: Read decimal numbers	Multiply and divide numbers by 10 and 100 giving decimal answers	Addition and Subtraction : Solve any 4d +1d, 4d + 2d, 4d+3d and 4d +4d calculations) and same with subtraction.

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	To read the Roman numerals to 100 Core numbers: Partition 2 decimal place numbers Understand 2decimal place numbers. Find 10, 100, 1000 more or less than a number Counting: Count in multiples of 7 and 9 from any number Count backwards through 0 to include negative numbers Counting in tenths on a numberline	Calculate with increasingly complex numbers e.g 12,462 - 2400 or 2,462+ 600 Bridge through a 100 or 1000 89+67 89+11+56=156 Know decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$,$\frac{3}{4}$ and any number tenths and hundredths Add or subtract 9,19,29,11,21,etc by rounding and compensating **Spring Term WRM Maths Links:** Multiply 2 and 3 digits by one digit Divide by 2 and 3 digits Add two or more fractions Calculate a fraction of an amount Reading tenths and hundreds as decimals Length and perimeter Continue to revisit WRM steps from previous term	Subtract any four-digit number from any four digit numbers when the difference is small e.g. 3641-3628 or 6002 –5991 Add and subtract numbers mentally with increasingly large numbers e.g 12,462 – 2,300 = 10, 162 Multiplication and Division: Multiply any two-digit multiple of 10 by the times tables learnt. e.g. 60x4, 80x 3 Divide one digit by 10 Divide two digits by 10

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Year 4 Summer	Counting: Count in multiples of 25 and 1000 from any number Count in fractions and decimal fractions tenths, hundredths forwards and backwards To read the Roman numerals to 100 Begin to read numbers to at least 1,000,000 and understand the value of each digit.	Use knowledge of multiplication and division facts to calculate questions such as 640 divided by 8 Use closely related facts to carry out multiplication and division e.g. 7 x 6 =42, therefore 700 x 6 =4200 or 6 x 8 =6 x 4 x 2 Recall multiplication and division facts for multiplication tables up to 12x12 Round decimals with 1 decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to 2 decimal places. **Summer Term WRM Maths Links:** Compare and order decimals Round decimals Find halves and quarters of decimal numbers Apply above steps to adding and subtracting money Four operations (up to 4 digits) Continue to revisit WRM steps from previous term	Addition and Subtraction: Solve any addition or subtraction calculations (numbers within 1000) as money e.g £5623 + £652 Multiplication and Division: Use distributive law to derive facts such as 39 x 8 = 30 x 8 + 9 x 8 Partition to carry out multiplication 56x7 = (50x7) + (6x7) 350 + 42= 392

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Year 5

Term	Rapid Recall and counting	Facts to learn	Calculation mentally
Year 5 Autumn	Reading numbers: Read, write, order and compare numbers to at least 1,000,000 and understand the value of each digit. Counting: Count forwards and backwards in steps of 10, 100, 1000 or 10,000 for any given number up to 1,000,000 Round numbers up to 1,000,000 to the nearest 10,100,1000, 10,000 and 100,000 Fractions on a number line	Recall multiplication and division facts for multiplication tables up to 12x12 **Autumn Term WRM Maths Links:** Roman Numerals to 1000 Rounding to 10, 100 and 1000 Compare, order and round numbers up to 100,000 and then 1,000,000. Writing numbers to 1,000,000 Add/subtract numbers with more than four digits Round, estimate and approximate Using estimation (rounding) to check answers Find missing numbers Inverse operations Multiples and factors Common Multiples Prime numbers, squares and cubes Equivalent fractions Add 3 or more fractions Add & subtract fractions (including mixed numbers) **Use Ready to Progress Maths Guidance and previous year Arithmetic Progression Doc to consolidate.**	Addition and Subtraction: Add and subtract numbers mentally with increasingly large numbers e.g 12,462 – 2,300 = 10, 162 Multi-step addition and subtraction Add and subtract fractions Multiplication and Division: Multiply and divide numbers mentally- drawing upon known facts. Multiply/Divide by 10, 100 and 1000 Multiples of 10, 100 and 1000
Year 5 Spring	Reading numbers: Read numbers with decimal places Read and write decimal numbers as fractions e.g. 0.71 = 71/100	Add and subtract fractions with the same denominator, and denominators that are multiples of the same number. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements. 1 as a mixed number (e.g. 2/5 + 4/5 = 6/5 = 1 1/5)	Addition and Subtraction: Add and subtract numbers mentally with increasingly large numbers Use knowledge of place value and addition and subtraction of two-digit numbers to derive sums and differences and doubles and

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	Core numbers: Explain what each digit represents in whole numbers and decimals with up to 3 places, and partition, round and order these numbers Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place	Extend mental methods for whole-number calculations, for example to multiply a two-digit by a one-digit number (e.g. 12 × 9), to multiply by 25 (e.g. 16 × 25), to subtract one near multiple of 1000 from another (e.g. 6070 - 4097) Equivalent fractions, decimals and percentages for hundredths e.g. 35% is equivalent to 0.35 or 35/100 **Spring Term WRM Maths Links:** Divide 2,3&4 digits by 2 digits Divide 2,3&4 digits by 1 digit Divide with remainders Add fractions and mixed numbers Subtract Fractions and Mixed Numbers Subtract 2 mixed numbers Fractions of an amount Decimals as fractions Fractions to decimals Round, order and compare decimals Percentages and fractions and decimals Equivalent FDP Continue to revisit WRM steps from previous term	halves of decimals (e.g. 6.5 ± 2.7, half of 5.6, double 0.34) Multiplication and Division: Use understanding of place value to multiply and divide whole numbers and decimals by 10, 100 or 1000

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Year 5 Summer	Core numbers: Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals. Counting: Interpret negative numbers in context – count forwards and backwards with positive and negative whole numbers, including through 0 Recognise the per cent symbol % and understand that percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, 1/5, 2/5, 4/5 and fractions with a denominator of a multiple of 10 or 25 Decimal Sequences	Know by heart all the squares and square roots of numbers between 12 x 12 Identify pairs of factors of two-digit whole numbers and find common multiples (e.g. for 6 and 9) To recall prime numbers less than 100 **Summer Term WRM Maths Links:** Adding and subtracting decimals Complements to 1 Multiplying and Dividing Decimals by 10, 100 and 1000 Negative numbers Converting units (multiply/ divide by 10/100/1000-revisit). Continue to revisit WRM steps from previous term	Addition and Subtraction: Add and subtract numbers mentally with increasingly large numbers Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Multiplication and Division: Multiply and divide whole number and those involving decimals by 10, 100 and 1,000 Know and use the vocabulary or prime number, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 as prime and recall prime number up to 19. Recognise and use square numbers and cube numbers, and the notation for squared and cubed

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Year 6

Term	Rapid Recall and counting	Facts to learn	Calculation mentally
Year 6 Autumn	Core numbers: Understand numbers with different decimal places Be able to order to 10 million Counting: Continue to count regularly, whole numbers, fractions, decimals, negative numbers Know by heart all the squares and square roots of numbers between 12 x 12 Recognise and recall factors of numbers up to 100 and corresponding multiples of 100 Use knowledge of place value and x facts to 10 x 10 to derive related x / ÷ facts e.g. (0.8 x 7 = 5.6)	Use known number facts and place value to add or subtract pairs of three digit multiples of 10 and two digit numbers with up to three decimal places Add or subtract the nearest multiple of 10 or 100, 1000, 10 000, then adjust Continue to use the relationship between addition and subtraction, multiplication and division Use factors e.g. 35 x 18, 35 x 2 x 3x3, 70 x 3 x 3 210 x 3 = 630 Calculate with unit fractions and use the knowledge of this to see inverse. $\frac{1}{4}$ of a length is 36 so the total length is 36 x 4 = 144 Partition: Using partitioning and the distributive law to divide tens and ones separately e.g. 94 ÷ 4 = (80 +12) ÷ 4 = 20 + 3 = 23 Form an equivalent calculation e.g. -to divide by 25, divide by 100 then multiply by 4 -to divide by 50, divide by 100 then double **Autumn Term WRM Maths Links:** Powers of 10 Compare, round or order any number	Practice mental calculations and ensure an increased speed of complex calculations Find squares of multiples of 10 to 100 Find any multiple of 10 % of a whole number or quantity e.g. 70% of £20 Double decimals with ones and tenths e.g. double 7.6 and find corresponding halves e.g. half of 15.2 Multiply/divide 2 digit decimals e.g. 0.8 x 7; 4.8 ÷ 6 Simplify fractions by cancelling Scale up/down using known facts e.g. 3 oranges cost 24p; find the cost of 4 oranges.

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		Negative numbers Numbers to 10 million (including read & write numbers to 10,000,000 Multiply 4 digits by 2 digits Short division Division using factors Long Division Order of operations (BIDMAS) Simplify Fractions Compare and order fractions Add and subtract mixed numbers Multiply fractions Divide Fractions Fractions of an amount Finding the whole Mixed questions with fractions **Use Ready to Progress Maths Guidance and Year 5 Arithmetic Progression Doc to consolidate.**	
Year 6 Spring	Generate linear number sequences including negative and decimal numbers e.g. 1.4; 1.1; 0.8 Equivalent fractions, decimals and percentages for hundredths e.g. 35% is equivalent to 0.35 or 35/100	**Spring Term WRM Maths Links:** Multiply and Divide by 10, 100 and 1000 Multiply and divide decimals by whole numbers Decimals as Fractions Fractions to Decimals Fractions to Percentages Equivalent FDP Order FDP Percentages of amounts Percentages – missing values Ratios Continue to revisit WRM steps from previous term	

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