CENTURY

This mapping of CENTURY nuggets to the White Rose 2020/21 Lesson-by-lesson Overview can be used to complement your use of the White Rose Scheme of Learning.

YEAR 3

Week	Topic	White Rose Lesson by Lesson Overview	CENTURY Nugget Name
AUTUMN			
Week 1	Number and Place Value	Represent numbers to 100 Tens and ones using addition Hundreds Numbers to 1,000 Numbers to 1,000 on a place value grid activity	*2-Digit: Recognising place value [PM1.34] *2-Digit: Representing numbers [PM1.35] 3-Digit: Recognising place value [PM1.05] 3-Digit: Representing numbers [PM1.06] Counting in multiples of 100 [PM1.04]
Week 2		100s, 10s and 1s (1) 100s, 10s and 1s (2) Number line to 100 Number line to 1,000 Find 1, 10, 100 more or less	*Number lines to 100 [PM1.36] *Number lines to 1000 [PM1.37] *2-Digit: Finding 10 more or 10 less [PM1.38] 3-Digit: Finding 10 more or 10 less [PM1.07] Finding 100 more or 100 less [PM1.08]
Week 3		Compare objects Compare numbers Ordering numbers Count in 50s	Comparing numbers with greater than and less than symbols <> [PM1.09] Ordering numbers up to 1000 [PM1.10] Counting in multiples of 50 [PM1.03]
Week 4	Addition and Subtraction	Add and subtract multiples of 100 Add and subtract 1s Add and subtract 3-digit and 1-digit numbers - not crossing 10 Add a 2-digit and 1-digit number - crossing 10 Add 3-digit and 1-digit numbers - crossing 10	3-Digit: Adding and subtracting 100s [PM2.03] *2-Digit: Adding and subtracting 1s (not crossing 10) [PM2.33] *2-Digit: Adding 1-digit numbers (crossing 10) [PM2.35] 3-Digit: Adding and subtracting 1s [PM2.01]
Week 5		Subtract a 1-digit number from 2-digits - crossing 10 Subtract a 1-digit number from a 3-digit number - crossing 10 Add and subtract 3-digit and 2-digit numbers - not crossing 100 Add 3-digit and 2-digit numbers - crossing 100 Subtract a 2-digit number from a 3-digit number - crossing 100	*2-Digit: Adding and subtracting 1s (not crossing 10) [PM2.33] *2-Digit: Adding 1-digit numbers (crossing 10) [PM2.35] 3-Digit: Adding and subtracting 10s [PM2.02] 3-Digit: Column addition (no exchanging) [PM2.04] 3-Digit: Column subtraction (no exchanging) [PM2.06]

*coming soon

Week	Topic		
Week 6	Addition and Subtraction	Add and subtract 100s Spot the pattern - making it explicit Add two 2-digit numbers - crossing 10 -add ones & add tens Subtract a 2-digit number from a 2-digit number - crossing 10 - subtract ones and subtract tens Mixed addition and subtraction problems	Adding and subtracting 100s [PM2.03] *2-Digit: Adding 2-digit numbers (no exchanging) [PM2.37] *2-Digit: Subtracting 2-digit numbers (no exchanging) [PM2.38] *2-Digit: Adding 2-digit numbers (with exchanging) [PM2.39] *2-Digit: Subtracting 2-digit numbers (with exchanging) [PM2.40]
Week 7		Add and subtract 2-digit & 3-digit numbers - not crossing 10 or 100 Add 2-digit and 3-digit numbers - crossing 10 or 100 Subtract a 2-digit number from a 3-digit number - crossing 10 or 100 Add two 3-digit numbers - not crossing 10 or 100 Add two 3-digit numbers - crossing 10 or 100	3-Digit: Column addition (with exchanging) [PM2.05] 3-Digit: Column subtraction (no exchanging) [PM2.06] Addition and subtraction practice 1 [PM2.08] Addition and subtraction word problems 1 [PM2.09]
Week 8		Subtract a 3-digit number from a 3-digit number - no exchange Subtract a 3-digit number from a 3-digit number - exchange Estimate answers to calculations Check answers	Rounding to the nearest 10 and 100 [PM2.10] Estimating using rounding [PM2.11] Checking answers using the inverse [PM2.12]
Week 9	Multiplication and Division	Multiplication - equal groups Multiplication using the symbol Using arrays 2 times-table 5 times-table	Understanding multiplication [PM3.63] Counting in multiples of 2 [PM10.01] Multiplying by 2 [PM10.05] Counting in multiples of 5 [PM10.03] Multiplying by 5 [PM10.06]
Week 10		Make equal groups - sharing Make equal groups - grouping Divide by 2 Divide by 5 Divide by 10	Dividing by 2 [PM10.08] Dividing by 5 [PM10.09] Dividing by 10 [PM10.10]
Week 11		Multiply by 3 Divide by 3 The 3 times-table Multiply by 4 Divide by 4	Counting in multiples of 3 [PM10.02] Multiplying by 3 [PM3.01] Dividing by 3 [PM3.05] Counting in multiples of 4 [PM1.01] Multiplying by 4 [PM3.02] Dividing by 4 [PM3.06]
Week 12		The 4 times-table Multiply by 8 Divide by 8 The 8 times-table	Counting in multiples of 8 [PM1.02] Multiplying by 8 [PM3.03] Dividing by 8 [PM3.07]

SPRING			
Week 1	Multiplication and Division	Consolidate 2, 4 and 8 times tables Comparing statements Related calculations Multiply 2-digits by 1-digit - no exchange - activity Multiply 2-digits by 1-digit (1)	Comparing statements [PM3.64] Mixed multiplication [PM3.04] Multiplying using partitioning [PM3.10]
Week 2		Multiply 2-digits by 1-digit - exchange - activity Multiply 2-digits by 1-digit (2) Divide 2-digits by 1-digit (1) Divide 2-digits by 1-digit (2) Divide 100 into 2, 4, 5 and 10 equal parts - activity	Short multiplication 1 [PM3.12] Dividing using partitioning (no remainders) [PM3.60]
Week 3		Divide with remainders activity Divide 2-digits by 1-digit (3) Scaling How many ways?	2-Digit: Dividing using partitioning (with remainders) [PM3.61] 2-Digit: Dividing using partitioning (with remainders) [PM3.61] *Scaling problems 1 [PM3.65]
Week 4	Money	Count money (pence) Count money (pounds) Pounds and pence Convert pounds and pence Add money	*Counting money (pence) [PM6.11] *Counting money (pounds) [PM6.12] *Making amounts (pounds and pence) [PM6.15] *Converting pounds and pence [PM6.13] Adding amounts of money [PM6.01] Adding amounts of money 2 [PM6.02]
Week 5		Subtract money Give change Make tally charts Draw pictograms (1-1)	Subtracting amounts of money [PM6.04] *Finding change 1 (from £1) [PM6.14] Finding change 2 [PM6.03] Tally charts [PM9.16] *Block diagrams [PM9.14] Pictograms [PM9.01]
Week 6	Statistics	Interpret pictograms (1-1) Draw bar charts - activity Bar charts Tables	Bar charts [PM9.03] Tables [PM9.02]
Week 7	Measurement	Measure length Measure length (m) Equivalent lengths (m and cm) Equivalent lengths (mm and cm) Compare lengths	Length [PM5.02]

Week 8	Measurement	Compare lengths Add lengths Subtract lengths What is perimeter? Activity Measure perimeter	Solving length problems [PM5.03] Perimeter by counting [PM5.08]
Week 9		Calculate perimeter Calculate perimeter Working with wholes and parts activity Recap - Make equal parts	Calculating the perimeter [PM5.09]
Week 10	Fractions	Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third	Recognising and finding a half [PM4.37] Recognising and finding quarters [PM4.38] Recognising and finding thirds [PM4.39]
Week 11		Find a third Unit fractions Non-unit fractions Equivalence of a half and 2 quarters Count in fractions	Identifying fractions [PM4.01] Counting in fractions [PM4.40]
SUMMER			
Week 1	Fractions	Making the whole Tenths Count in tenths Fractions on a number line Fractions of a set of objects (1)	Tenths [PM4.02] Finding unit fractions of amounts [PM4.06]
Week 2		Fractions of a set of objects (2) Fractions of a set of objects (3) Equivalent fractions (1) Equivalent fractions (2) Equivalent fractions (3)	Finding non-unit fractions of amounts [PM4.07] Finding fractions of amounts [PM4.08] Equivalent fractions [PM4.05]
Week 3		Compare fractions Order fractions Add fractions Subtraction fractions	Comparing and ordering fractions [PM4.03] Adding and subtracting fractions [PM4.04]

Week 4	Time	O'clock and half past Quarter past and quarter to Months and years Hours in a day Telling the time to 5 minutes	Telling the time in words [PM7.03] Units of time [PM7.01] Telling the time to the nearest 5 minutes [PM7.04] Telling the time to the nearest 5 minutes in words [PM7.05]
Week 5		Telling the time to the minute Using a.m. and p.m. 24-hour clock activity 24-hour clock Finding the duration	Telling the time to the nearest minute [PM7.06] Times of day [PM7.02] 12 hour and 24 hour clocks [PM7.09] Finding the duration [PM7.11]
Week 6		Comparing durations Start and end times Measuring time in seconds Problem solving with time	Start and end times [PM7.12]
Week 7	Geometry	Turns and angles Right angles in shapes Compare angles Draw accurately Horizontal and vertical	Angles in turns [PM8.04] Identifying angles [PM8.05]
Week 8		Parallel and perpendicular Recognise and describe 2-D shapes Recognise and describe 3-D shapes Make 3-D shapes	Identifying lines [PM8.06] Describing 2D shapes [PM8.01] Describing 3D shapes [PM8.02] Nets of shapes [PM8.03]
Week 9	Measurement	Measure mass activity Compare mass Measure mass (1) Measure mass (2) Compare mass	Mass and weight [PM5.04]
Week 10		Add and subtract mass Measure capacity activity Compare volume Measure capacity (1) Measure capacity (2)	Solving mass problems [PM5.05] Volume and capacity [PM5.06]
Week 11		Compare capacity Add and subtract capacity Temperature activity Temperature	Solving volume and capacity problems [PM5.07]

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YEAR 4

Week	Topic	White Rose Lesson by Lesson Overview	CENTURY Nugget Name
AUTUMN			
Week 1	Number and Place value	Numbers to 1,000 100s, 10s and 1s Number line to 1,000 Round to the nearest 10 Round to the nearest 100	3-Digit: Recognising place value [PM1.05] *Number lines to 1000 [PM1.37] 3-Digit: Rounding to the nearest 10 and 100 [PM2.10]
Week 2		Count in 1000s Represent numbers to 10,000 activity 1000s, 100s, 10s and 1s Partitioning The number line to 10,000	Place value in 4 digit numbers [PM1.20] Counting in multiples of 1000 [PM1.16]
Week 3		Find 1, 10, 100 more or less 1,000 more or less Compare 4-digit numbers Order numbers Round to the nearest 1,000	Finding 10 more or 10 less [PM1.07] Finding 100 more or 100 less [PM1.08] Finding 1000 more or less [PM1.17] Comparing and ordering numbers [PM1.22] Rounding to the nearest 10, 100 and 1000 [PM1.23]
Week 4		Count in 25s Introducing negative numbers activity Negative numbers Roman numerals	Counting in multiples of 25 [PM1.15] Negative numbers 1 [PM1.18] Roman numerals (up to 20) [PM7.07] Roman numerals (up to 100) [PM1.24]
Week 5	Addition and Subtraction	Add and subtract 1s, 10s, 100s and 1,000s Add two 3-digit numbers - not crossing 10 or 100 Add two 4-digit numbers - no exchange Add two 3-digit numbers - crossing 10 or 100 Add two 4-digit numbers - one exchange	3-Digit: Adding and subtracting 1s [PM2.01] 3-Digit: Adding and subtracting 10s [PM2.02] 3-Digit: Adding and subtracting 100s [PM2.03] 3-Digit: Column addition (no exchanging) [PM2.04] 4-Digit: Column addition (no exchanging) [PM2.13] 3-Digit: Column addition (with exchanging) [PM2.05]

Week 6	Addition and Subtraction	Add two 4-digit numbers - more than one exchange Subtract a 3-digit number from a 3-digit number - no exchange Subtract two 4-digit numbers - no exchange Subtract a 3-digit number from a 3-digit number - exchange Subtract two 4-digit numbers - one exchange	4- Digit: Column addition (with exchanging) [PM2.14] 3-Digit: Column subtraction (no exchanging) [PM2.06] 4-Digit: Column subtraction (no exchanging) [PM2.15] 3-Digit: Column subtraction (with exchanging) [PM2.07]
Week 7		Subtract two 4-digit numbers - more than one exchange Efficient Subtraction Estimate answers Checking strategies	4-Digit: Column subtraction (with exchanging) [PM2.16] Estimating to check answers [PM2.20] Checking answers using the inverse [PM2.19]
Week 8	Measurement	Equivalent lengths - m and cm Equivalent lengths - mm and cm Kilometres Add lengths Subtract lengths	Converting cm and m [PM5.12] Converting mm and cm [PM5.11] Converting m and km [PM5.13] Solving length problems [PM5.03]
Week 9		Measure perimeter Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes	Perimeter by counting [PM5.08] Calculating the perimeter [PM5.19]
Week 10	Multiplication and Division	Multiply by 10 Multiply by 100 Divide by 10 Divide by 100 Multiply by 1 and 0	Dividing and multiplying by 10 and 100 (including decimals) [PM4.12]
Week 11		Divide by 1 and itself Multiply and divide by 3 The 3 times-table Multiply and divide by 6 6 times-table and division facts	Counting in multiples of 3 [PM10.02] Multiplying by 3 [PM3.01] Dividing by 3 [PM3.05] Counting in multiples of 6 [PM1.12] Multiplying by 6 [PM3.17] Dividing by 6 [PM3.23]
Week 12		Multiply and divide by 9 9 times-table and division facts Multiply and divide by 7 7 times-table and division facts	Counting in multiples of 9 [PM1.14] Multiplying by 9 [PM3.19] Dividing by 9 [PM3.25] Counting in multiples of 7 [PM1.13] Multiplying by 7 [PM3.18] Dividing by 7 [PM3.24]

SPRING			
Week 1	Multiplication and Division	11 and 12 times-table Multiply 3 numbers Factor pairs Efficient multiplication Written methods	Multiplying by 11 [PM3.20] Multiplying by 12 [PM3.21] Dividing by 11 [PM3.26] Dividing by 12 [PM3.27] Multiplying 3 numbers together [PM3.29] Factor pairs [PM3.30]
Week 2		Multiply 2-digits by 1-digit Multiply 3-digits by 1-digit Divide 2-digits by 1-digit Divide 2-digits by 1-digit (1)	Multiplying using partitioning [PM3.10] 2-Digit: Multiplying by 1-digit [PM3.12] 2/3-Digit: Multiplying by 1-digit [PM3.31] 2-Digit: Dividing using partitioning (no remainders) [PM3.60]
Week 3		Divide 2-digits by 1-digit Divide 2-digits by 1-digit (2) Divide 3-digits by 1-digit Correspondence problems	2-Digit: Dividing using partitioning (with remainders) [PM3.61] 2/3-Digit: Dividing using partitioning (no remainders) [PM3.35] 2/3-Digit: Dividing using partitioning (with remainders) [PM3.36] 2/3-Digit: Dividing using written methods [PM3.37] Correspondence problems 1 [PM3.33] Correspondence problems 2 [PM3.34]
Week 4	Area	What is area? Counting squares Making shapes Comparing area	Area by counting [PM5.20] Area [PM5.21]
Week 5	Fractions	Unit and non-unit fractions What is a fraction? Tenths Count in tenths Equivalent fractions (1)	Identifying fractions [PM4.01] Tenths [PM4.02]
Week 6		Equivalent fractions (2) Equivalent fractions (1) Equivalent fractions (2) Fractions greater than 1 Count in fractions	Equivalent fractions [PM4.05] *Counting in fractions [PM4.40]
Week 7		Add fractions Add 2 or more fractions Subtract fractions Subtract 2 fractions Subtract from whole amounts	Adding and subtracting fractions [PM4.04]

Week 8	Fractions	Fractions of a set of objects (1) Fractions of a set of objects (2) Calculate fractions of a quantity Problem solving - calculate quantities	Finding unit fractions of amounts [PM4.06] Finding non-unit fractions of amounts [PM4.07] Finding fractions of amounts [PM4.08]
Week 9	Decimals	Tenths and hundredths activity Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid Tenths on a number line	Tenths [PM4.02] Hundredths [PM4.09] Recognising place value in decimals [PM1.21]
Week 10		Divide 1-digit by 10 Divide 2-digits by 10 Hundredths Hundredths as decimals Hundredths on a place value grid	Dividing and multiplying by 10 and 100 (including decimals) [PM4.12] Hundredths [PM4.09] Recognising place value in decimals [PM1.21]
Week 11		Divide 1 or 2-digits by 100	Dividing and multiplying by 10 and 100 (including decimals) [PM4.12]
SUMMER			
Week 1	Fractions and Decimals	Bonds to 10 and 100 Make a whole Write decimals activity Write decimals activity Compare decimals	Number bonds to 100 [PM2.31] *2dp: Decimal complements to 1[PM4.37] Recognising place value in decimals [PM1.21] Comparing decimals [PM4.14]
Week 2		Order decimals Round decimals activity Round decimals Halves and quarters	Rounding decimals to the nearest whole number [PM4.13] Decimal equivalents (quarter, half and three quarters) [PM4.11]
Week 3	Money	Pounds and pence Ordering money Estimating money Convert pounds and pence Add money	Pounds and pence [PM6.06] Comparing amounts of money [PM6.07] Estimating amounts of money [PM6.08] Adding amounts of money [PM6.01]
Week 4		Subtract money Find change Working with money activity Four operations	Subtracting amounts of money [PM6.04] Finding change [PM6.03] Solving money problems 1 [PM6.09] Solving money problems 2 [PM6.10]

Week	Topic		
Week 5	Time	Telling the time to 5 minutes Telling the time to the minute Using a.m. and p.m. 24-hour clock Hours, minutes and seconds	Telling the time to the nearest 5 minutes [PM7.04] Telling the time to the nearest minute [PM7.06] 12 hour and 24 hour clocks [PM7.09] Converting seconds, minutes and hours [PM7.14]
Week 6		Years, months, weeks and days Analogue to digital - activity Analogue to digital - 12 hour Analogue to digital - 24 hour	Converting weeks, days, years and months [PM7.13] 12 hour and 24 hour clocks [PM7.09]
Week 7	Statistics	Interpret charts Comparison, sum and difference Introducing line graphs Line graphs	Pictograms [PM9.01] Bar charts [PM9.03] Tables [PM9.02] Line graphs [PM9.04]
Week 8	Geometry	Turns and angles Right angles in shapes Compare angles Identify angles Compare and order angles	Angles in turns [PM8.04] Identifying angles [PM8.05]
Week 9		Recognise and describe 2-D shapes Triangles activity Triangles Quadrilaterals activity Quadrilaterals	Describing 2D shapes [PM8.01] Triangles [PM8.11] Quadrilaterals [PM8.12]
Week 10		Symmetry activity Horizontal and vertical Lines of symmetry Complete a symmetric figure	Identifying lines [PM8.06] Lines of symmetry [PM8.07]
Week 11	Position and Direction	Describe position Draw on a grid Move on a grid Describe movement on a grid	Describing position [PM8.14] Plotting points [PM8.15] Translation [PM8.16]

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YEAR 5

Week	Topic	White Rose Lesson by Lesson Overview	CENTURY Nugget Name
AUTUMN			
Week 1	Number and Place value	1000s, 100s, 10s and 1s Numbers to 10,000 Rounding to the nearest 10 Rounding to the nearest 100 Rounding to 10, 100 and 1,000	Place value in 4 digit numbers [PM1.20] Rounding to the nearest 10, 100 and 1000 [PM1.23]
Week 2		Numbers to 100,000 Compare and order numbers to 100,000 Round numbers within 100,000 Numbers to a million Counting in 10s, 100s, 1,000s, 10,000s and 100,000s	Place value up to 1,000,000 [PM1.25] Comparing and ordering numbers [PM1.22] Rounding to the nearest 10,000 and 100,000 [PM1.28] Counting forwards and backwards in powers of 10 [PM1.27]
Week 3		Compare and order numbers to one million Round numbers to one million Negative Numbers Roman numerals	Comparing and ordering numbers to 1,000,000 [PM1.26] Rounding to the nearest 10,000 and 100,000 [PM1.28] Negative numbers 2 (including addition and subtraction) [PM1.19] Roman numerals (beyond 1000) [PM1.30]
Week 4	Addition and Subtraction	Add two 4-digit numbers - one exchange Add two 4-digit numbers - more than one exchange Add whole numbers with more than 4 digits Subtract two 4-digit numbers - one exchange Subtract two 4-digit numbers - more than one exchange	4-Digit: Column addition (with exchanging) [PM2.14] 4+ Digit: Column addition [PM2.22] 4+ Digit: Column subtraction [PM2.23]
Week 5		Subtract whole numbers with more than 4-digits Round to estimate and approximate Inverse operations (addition and subtraction) Multi-step addition and subtraction problems	4-Digit: Column subtraction (with exchanging) [PM2.16] Estimating to check answers [PM2.20] Solving two-step problems [PM2.21]

Week 6	Statistics	Interpret charts Comparison, sum and difference Introduce line graphs Read and interpret line graphs Draw line graphs	Bar charts 2 [PM9.13] Line graphs [PM9.04]
Week 7		Use line graphs to solve problems Read and interpret tables Two-way tables Timetables	Line graphs 2 [PM9.08] Tables 2 [PM9.05] Two-way tables [PM9.06] Timetables [PM9.07]
Week 8	Multiplication and Division	Multiples Factors Common factors Prime numbers activity Prime numbers	Factor pairs [PM3.30] Common factors [PM3.40] Prime numbers [PM3.41]
Week 9		Square numbers Cube numbers Multiply by 10 Multiply by 100 Multiply by 10, 100 and 1,000	Square numbers [PM3.43] Cube numbers [PM3.44] Multiplying by 10, 100 and 1000 (involving decimals up to 3 d.p) [PM3.45]
Week 10		Divide by 10 Divide by 100 Divide by 10, 100 and 1,000 Multiples of 10, 100 and 1,000	Dividing by 10, 100 and 1000 (involving decimals up to 3 d.p) [PM3.46] Mental strategies for multiplication 1 [PM3.47]
Week 11	Area and perimeter	Measure perimeter Perimeter on a grid Perimeter of rectangles Perimeter of rectilinear shapes Calculate perimeter	Perimeter by counting [PM5.08] Calculating the perimeter [PM5.19] Calculating the perimeter 2 [PM13.01]
Week 12		Counting squares Area of rectangles Area of compound shapes Area of irregular shapes	Area by counting [PM5.20] Area of rectangles [PM13.02] Area of compound shapes [PM13.03]
SPRING			

Week	Topic	Lessons	Objectives
Week 1	Multiplication and Division	Multiply 2-digits by 1-digit Multiply 3-digits by 1-digit Multiply 4-digits by 1-digit Area model activity Multiply 2-digits (area model)	2/3-Digit: Multiplying by 1-digit [PM3.31] 3/4-Digit: Multiplying by 1-digit [PM3.50] 2-Digit: Multiplying by 2-digits [PM3.51] 3/4-Digit: Multiplying by 2-digits [PM3.52]
Week 2		Multiply 2-digits by 2-digits Multiply 3-digits by 2-digits Multiply 4-digits by 2-digits (basic practice) Multiply 4-digits by 2-digits Divide 2-digits by 1-digit (1)	2-Digit: Multiplying by 2-digits [PM3.51] 3/4-Digit: Multiplying by 2-digits [PM3.52] 2/3-Digit: Dividing using partitioning (no remainders) [PM3.35]
Week 3		Divide 2-digits by 1-digit (2) Divide 3-digits by 1-digit Divide 4-digits by 1-digit Divide with remainders	2/3-Digit: Dividing using partitioning (with remainders) [PM3.36] 2/3-Digit: Dividing using written methods [PM3.37] 3/4-Digit: Dividing by 1-digit numbers using short division (without remainders) [PM3.53] 3/4-Digit: Dividing by 1-digit numbers using short division (with remainders) [PM3.54]
Week 4	Fractions	What is a fraction? Equivalent fractions Equivalent fractions Fractions greater than 1 Improper fractions to mixed numbers	Identifying fractions [PM4.01] Equivalent fractions [PM4.05] Equivalent fractions 2 [PM4.15] Mixed numbers and improper fractions [PM4.17]
Week 5		Mixed numbers to improper fractions Number sequences Compare fractions less than 1 Order fractions less than 1 Compare fractions greater than 1	Mixed numbers and improper fractions [PM4.17] Comparing and ordering fractions [PM4.03] Comparing proper fractions 1 [PM4.16] Comparing and ordering improper fractions and mixed numbers [PM4.18]
Week 6		Order fractions greater than 1 Add and subtract fractions Add fractions within 1 activity Add 3 or more fractions	Comparing and ordering improper fractions and mixed numbers [PM4.18] Adding and subtracting fractions [PM4.04]
Week 7		Add fractions Add mixed numbers activity Add mixed numbers Subtract fractions Subtract mixed numbers	Adding and subtracting fractions with different denominators [PM4.27] Adding and subtracting mixed numbers 1 [PM4.29]

Week 8	Fractions	Subtraction - breaking the whole Subtract 2 mixed numbers Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers	Multiplying fractions by whole numbers [PM4.28] Multiplying mixed numbers by whole numbers [PM4.30]
Week 9		Calculate fractions of a quantity Fraction of an amount Using fractions as operators Fraction problem solving	Finding fractions of amounts [PM4.08] Fractions as operators [PM4.31]
Week 10	Fractions, Decimals and Percentages	Decimals up to 2 d.p. Decimals as fractions (1) Decimals as fractions (2) Understand thousandths Thousandths as decimals	Recognising place value in decimals [PM1.21] Recognising place value in decimals up to 3 d.p. [PM12.02] Decimal equivalents (tenths/hundredths) [PM4.10] Thousandths [PM12.01]
Week 11		Rounding decimals Order and compare decimals Understand percentages Percentages as fractions and decimals Equivalent FDP	Rounding decimals [PM12.03] Comparing decimals [PM4.14] Introduction to percentages [PM12.05] Fractions, decimals & percentages [PM12.06]
SUMMER			
Week 1	Decimals	Consolidate decimals from the Spring Term	Thousandths [PM12.01] Rounding decimals [PM12.03] Comparing decimals [PM4.14]
Week 2		Adding decimals within 1 Subtracting decimals within 1 Complements to 1 Adding decimals - crossing the whole Adding decimals with the same number of decimal places	Adding and subtracting decimals (within 1) [PM12.14] 3dp: Decimal complements to 1 [PM12.15]
Week 3		Subtracting decimals with the same number of decimal places Adding and subtracting decimals with the same number of decimal places problem solving Adding decimals with a different number of decimal places Subtracting decimals with a different number of decimal places Adding and subtracting decimals with a different number of decimal places problem solving	Adding and subtracting decimals [PM12.04]

Week 4	Decimals	Adding and subtracting wholes and decimals Decimal sequences Multiplying decimals by 10, 100 and 1,000 Dividing decimals by 10, 100 and 1,000	Multiplying by 10, 100 and 1000 (involving decimals up to 3 d.p) [PM3.45] Dividing by 10, 100 and 1000 (involving decimals up to 3 d.p) [PM3.46]
Week 5	Geometry	Identify angles Compare and order angles Measuring angles in degrees Measuring with a protractor (1) Measuring with a protractor (2)	Identifying angles 2 [PM14.05] Estimating angles [PM14.07] Measuring angles [PM14.08]
Week 6		Drawing lines and angles accurately activity Drawing lines and angles accurately Calculating angles on a straight line Calculating angles around a point Triangles	Drawing angles [PM14.09] Angles on a straight line [PM14.11] Angles around a point [PM14.12] Triangles [PM8.11]
Week 7		Quadrilaterals Calculating lengths and angles in shapes Regular and irregular polygons Reasoning about 3-D shapes	Quadrilaterals [PM8.12] Regular and irregular polygons [PM14.01] Views of 3D shapes [PM14.03]
Week 8	Position and Direction	Describe position Draw on a grid Position in the first quadrant Translation Translation with coordinates	Describing position [PM8.14] Plotting points [PM8.15] Translation [PM8.16]
Week 9		Lines of symmetry Complete a symmetric figure Reflection Reflection with coordinates	Lines of symmetry [PM8.07] Reflection [PM15.01]
Week 10	Measurement	Kilometres Kilograms and kilometres Millimetres and millilitres Metric units activity Metric units	Solving length problems with conversion [PM5.23] Solving mass problems with conversion [PM5.25] Solving mass problems with conversion [PM5.25]

Week 11	Measurement	Imperial units activity Imperial units Converting units of time Timetables	Imperial units of length [PM5.22] Imperial units of mass [PM5.24] Imperial units of volume and capacity [PM5.26] Converting units of time [PM7.15] Timetables [PM9.07]
Week 12		What is volume? Compare volume Estimate volume Estimate capacity	Volume of shapes 1 [PM13.06] Estimating volume and capacity [PM5.28]

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YEAR 6

Week	Topic	White Rose Lesson by Lesson Overview	CENTURY Nugget Name
AUTUMN			
Week 1	Place Value	Numbers to 10,000 Numbers to 100,000 Numbers to a million Numbers to 10 million Compare and order any number	Place value in 4 digit numbers [PM1.20] Place value up to 1,000,000 [PM1.25] Place value up to 10,000,000 [PM1.31] Comparing and ordering numbers to 1,000,000 [PM1.26]
Week 2		Round numbers to 10, 100 and 1,000 Round any number Negative numbers (in context) Negative numbers (more abstract)	Rounding to the nearest 10, 100 and 1000 [PM1.23] Rounding to the nearest 10,000 and 100,000 [PM1.28] Negative numbers 1 [PM1.18] Negative numbers 2 (including addition and subtraction) [PM1.19] Negative numbers 3 [PM1.32]
Week 3	Addition and Subtraction	Add whole numbers with more than 4 digits Subtract whole numbers with more than 4 digits Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Add and subtract integers	4+ Digits: Column addition [PM2.22] 4+ Digits: Column subtraction [PM2.23] Inverse operations [PM2.29] Multi-step addition and subtraction problems [PM2.28]
Week 4	Multiplication and Division	Multiply 4-digits by 1-digit Multiply 2-digits (area model) Multiply 2-digits by 2-digits Multiply 3-digits by 2-digits Multiply up to a 4-digit number by a 2-digit number	3/4-Digit: Multiplying by 1-digit [PM3.50] 2-Digit: Multiplying by 2-digits [PM3.51] 3/4-Digit: Multiplying by 2-digits [PM3.52]
Week 5	Multiplication and Division	Divide 4-digits by 1-digit Divide with remainders Short division Division using factors Long division (1)	3/4-Digit: Dividing by 1-digit numbers using short division (without remainders) [PM3.53] 3/4-Digit: Dividing by 1-digit numbers using short division (with remainders) [PM3.54] Dividing by 2-digit numbers using short division [PM3.56] Long division 1 (dividing by a single digit number) [PM3.57]

Week 6		Long division (2) Long division (3) Long division (4) Factors Common factors	Long division 1 (dividing by a single digit number) [PM3.57] Long division 2 (dividing by a 2-Digit number) [PM3.58] Division by chunking [PM3.59] Factor pairs [PM3.30] Common factors [PM3.40]
Week 7		Common multiples Primes to 100 Squares and cubes Order of operations Mental calculations and estimation	Common multiples [PM3.55] Prime numbers [PM3.41] Square numbers [PM3.43] Cube numbers [PM3.44] Operations of equal priority [PM11.05] BIDMAS: 4 operations and brackets [PM11.06] BIDMAS: Indices [PM11.07] Mental Strategies for Addition 1 [PM2.24] Mental Strategies for Addition 2 [PM2.25] Mental Strategies for Subtraction 1 [PM2.26] Mental Strategies for Subtraction 2 [PM2.27] Mental strategies for multiplication 1 [PM3.47] Mental strategies for multiplication 2 [PM3.48] Mental strategies for division [PM3.49]
Week 8	Fractions	Reason from known facts Equivalent fractions Simplify fractions Improper fractions to mixed numbers	Equivalent fractions [PM4.05] Equivalent fractions 2 [PM4.15] Simplifying fractions [PM4.23]
Week 9		Mixed numbers to improper fractions Fractions on a number line Compare and order (denominator) Compare and order (numerator) Add and subtract fractions (1)	Mixed numbers and improper fractions [PM4.17] Fractions on a number line 1 [PM4.34] Fractions on a number line 2 [PM4.35] Comparing proper fractions 1 [PM4.16]
Week 10		Add and subtract fractions (2) Add mixed numbers Add fractions Subtract mixed numbers	Adding and subtracting fractions with different denominators 2 [PM4.32] Adding and subtracting mixed numbers 2 [PM4.33]
Week 11	Fractions	Subtract fractions Mixed addition and subtraction Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers (1)	Multiplying fractions by whole numbers [PM4.28] Multiplying simple pairs of proper fractions [PM4.24] Dividing fractions by whole numbers [PM4.25]

Week 12		Divide fractions by integers (2) Four rules with fractions Fractions of an amount Fraction of an amount - find the whole	Dividing fractions by whole numbers [PM4.25] Finding fractions of amounts [PM4.08] Finding fractions of amounts: finding the whole [PM4.36]
Week 13	Position and Direction	The first quadrant Four quadrants Translations Reflections	Plotting points [PM8.15] Four quadrants [PM15.02] Translation 2 [PM15.03] Reflection 2 [PM15.04]
SPRING			
Week 1	Decimals	Decimals up to 2 d.p. Understand thousandths Three decimal places Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000	Recognising place value in decimals [PM1.21] Thousandths [PM12.01] Recognising place value in decimals up to 3 d.p [PM12.02] Multiplying by 10, 100 and 1000 (involving decimals up to 3 d.p) [PM3.45] Dividing by 10, 100 and 1000 (involving decimals up to 3 d.p) [PM3.46]
Week 2		Multiply decimals by integers Divide decimals by integers Division to solve problems Decimals as fractions Fractions to decimals (1)	Multiplying decimals [PM12.09] Dividing decimals [PM12.10] Converting decimals to fractions [PM12.11]
Week 3	Percentages	Fractions to decimals (2) Understand percentages Fractions to percentages Equivalent FDP	Fractions to decimals using division [PM12.12] Introduction to percentages [PM12.05] Finding percentages 1 [PM12.07] Finding percentages 2 [PM12.08] Fractions, decimals and percentages 2 [PM12.13]
Week 4	Percentages	Order FDP Percentage of an amount (1) Percentage of an amount (2) Percentages (missing values)	Fractions, decimals & percentages [PM12.06] Fractions, decimals and percentages 2 [PM12.13] Finding percentages of amounts 1 [PM16.01] Finding percentages of amounts 2 [PM16.02] Finding percentages of amounts 3 [PM16.03] Finding percentages of amounts 4 [PM16.04] Percentages (missing values) [PM16.05]
Week 5	Algebra	Find a rule - one step Find a rule - two step Forming expressions Substitution Formulae	Function machines [PM18.02] Forming expressions 1 [PM18.03] Forming expressions 2 [PM18.04] Forming expressions 3 [PM18.05] Substitution [PM18.06]

			Formulae [PM18.07]
Week 6		Forming equations Solve simple one-step equations Solve two-step equations Find pairs of values (1) Find pairs of values (2)	Function machines [PM18.02] Forming expressions 1 [PM18.03] Forming expressions 2 [PM18.04] Forming expressions 3 [PM18.05] Solving 1 step equations [PM18.08] Solving 2 step equations [PM18.09] Satisfying equations with 2 variables [PM18.10]
Week 7	Measurement	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measures	Converting metric measures [PM5.29] Imperial units of length [PM5.22] Imperial units of mass [PM5.24] Imperial units of volume and capacity [PM5.26]
Week 8	Area, Perimeter and Volume	Shapes - same area Area and perimeter Area of a triangle (1) Area of a triangle (2) Area of a triangle (3)	Area and perimeter [PM13.05] Area of right-angled triangles [PM13.08] Area of triangles [PM13.09]
Week 9		Area of a parallelogram What is volume? Volume - counting cubes Volume of a cuboid	Area of parallelograms [PM13.07] Volume of shapes 1 [PM13.06] Volume of shapes 2 [PM13.10]
Week 10	Ratio and Proportion	Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio activity Calculating ratio	Introduction to ratio [PM17.01] Ratios and fractions [PM17.03] Sharing into a given ratio [PM17.04]
Week 11		Using scale factors Calculating scale factors Ratio and proportion problems Ratio and proportion problems (2)	Similar shapes [PM17.05] Proportion [PM17.06]
Week 12	Statistics	Line graphs Circles Read and interpret pie charts Draw pie charts The mean	Line graphs 3 [PM9.09] Circles [PM14.13] Pie charts 1 [PM9.10] Pie charts 2 [PM9.11] Finding the mean [PM9.12]
SUMMER			

Week				
Week 1	Geometry	Measure with a protractor Draw lines and angles accurately Introduce angles Angles on a straight line Angles around a point		Measuring angles [PM14.08] Drawing angles [PM14.09] Angles in turns [PM8.04] Identifying angles 2 [PM14.05] Angles on a straight line [PM14.11] Angles around a point [PM14.12}
Week 2		Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle - special cases Angles in a triangle - missing angles		Vertically opposite angles [PM14.15] Angles in triangles [PM14.16]
Week 3		Angles in special quadrilaterals Angles in regular polygons Draw shapes accurately Draw nets of 3-D shapes		Angles in quadrilaterals [PM14.17] Angles in regular polygons [PM14.18] Nets of shapes 2 [PM14.14]
Week 4-13	Consolidation	Consolidation or SATs preparation		5 - Problem solving and reasoning assessment (1) [PM19.05] 5 - Problem solving and reasoning assessment (2) [PM19.06] 6 - Problem solving and reasoning assessment (1) [PM19.07] 6 - Problem solving and reasoning assessment (2) [PM19.08]