

Ocker Hill Academy: Termly Overview for Maths In **YEAR 3**, children should **understand (Knowledge)** and **be able to (Skill)** ...

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	PLACE VALUE (N) Hundreds, tens and ones Use representations to 1,000 Use number line to 1000 Find 1, 10 or 100 more or less Compare objects/numbers to 1,000 Order numbers Count in 50's			ADDITION & SUBTRACTION (N) Add and subtract multiples of 100 Written addition and subtraction (up to 3 digits) Estimate answers to calculations Check answers Spot patterns						MULTIPLICATION & DIVISION (N) Multiplication as adding equal groups Multiply and divide by 3 The 3 times table Multiply and divide by 4 The 4 times table Multiply and divide by 8 The 8 times table		CONSOLIDATION
Spring	MULTIPLICATION & DIVISION (N) Comparing multiplication & division statements Related calculations Written multiplication (up to 2 digit by 1 digit) Written division (up to 2 digit by 1 digit) Scaling Find possible combinations			MONEY (M) Pounds and pence Convert pounds and pence Add and subtract money Give change	STATISTICS (S) Interpret pictograms, bar charts and tables	LENGTH & PERIMETER (M) Measure lengths Find equivalent lengths (m and cm) Find equivalent lengths (mm and cm) Add and subtract length Measure perimeter Calculate perimeter		FRACTIONS (N) Unit and non-unit fractions Making the whole Recognise & count in tenths Order fractions on a number line Fractions of a set of objects		CONSOLIDATION		
Summer	FRACTIONS (N) Equivalent fractions Compare fractions Order fractions Add & subtract fractions			TIME (M) Months & years Hours in a day Tell time to nearest 5 minutes then to nearest 1 minute 24 hour clock Find & compare durations Work out start & end times Measure time in seconds		SHAPE PROPERTIES (G) Turns and angles Identify right angles in shapes Compare angles Draw accurately Lines: horizontal/vertical/Parallel / perpendicular Recognise/describe 2-D and 3-D shapes Make 3-D shapes		MASS & CAPACITY Measure mass Compare mass Add & subtract mass Measure capacity Compare capacity Add & subtract capacity		CONSOLIDATION		

N = Number M = Measurement G = Geometry S = Statistics A= Algebra

Ocker Hill Academy: Termly Overview for Maths In **YEAR 4**, children should **understand (Knowledge)** and **be able to (Skill)** ...

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	PLACE VALUE (N) Roman numerals to 100 Round numbers to nearest 10, 100 or 1000 Partition into 1,000s, 100's, 10's and 1's Count in 1,000's and 25's Find 1,000 more or less Order on a number line to 10,000 Compare negative numbers				ADDITION & SUBTRACTION (N) Add & subtract 1's, 10's, 100's and 1,000's Add and subtract (up to 4 digits) Estimate answers Check answers			LENGTH & PERIMETER (M) Kilometres Calculate Perimeter on grid Perimeter of a rectangle Perimeter of rectilinear shapes	MULTIPLICATION & DIVISION (N) Multiply and divide by 10 or 100 Multiply and divide by 1 Multiply by 0 Multiply and divide by 6, by 7 and by 9 6, 7 and 9 times tables and division facts		CONSOLIDATION		
Spring	MULTIPLICATION & DIVISION (N) 11 and 12 times tables Multiply 3 numbers Find factor pairs Explore different ways to multiply Written multiplication (up to 3 digits by 1 digit) Written division (up to 3 digits by 1 digit) Find possible combinations			AREA (M) Understand area Calculate area by counting squares/making shapes Compare area	FRACTIONS (N) Understanding fractions Equivalent fractions Fractions greater than 1 Count in fractions Add & subtract fractions Subtract fractions from whole amounts Calculate fractions of a quantity Fraction problem solving-calculate quantities				DECIMALS (N) Recognise tenths & hundredths Compare tenths as decimals, on a number line & on a place value grid Compare hundredths as decimals, on a number line & on a place value grid Divide 1 and 2 digit numbers by 10 and 100		CONSOLIDATION		
Summer	DECIMALS (N) Make a whole Write decimals Compare & order decimals Round decimals Calculate halves and quarters		MONEY (M) Pounds & pence Ordering money Estimating money Use four operations with money		TIME (M) Hours, minutes & seconds Years, weeks, months and days Convert analogue to digital : 12 and 24hours	STATISTICS (S) Interpret charts Solve comparison, sum & difference problems Interpret line graphs		PROPERTIES OF SHAPE (G) Identify, compare and order angles Know properties of triangles and quadrilaterals Find lines of symmetry Complete symmetric figures		POSITION & DIRECTION (G) Describe position on coordinate grid Draw on grids Move shapes on grids		CONSOLIDATION	

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Ocker Hill Academy: Termly Overview for Maths In YEAR 5, children should *understand (Knowledge)* and *be able to (Skill)* ...

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	PLACE VALUE (N) Roman numerals to 1,000 Numbers to 1 million Compare and order to 1 million Round numbers to nearest 10, 100 and 1,000 (up to 1 million) Counting in 10's, 100's, 1,000's & 10,000's Find differences negative numbers (temperature)			ADDITION & SUBTRACTION (N) Written addition & subtraction (more than 4 digits) Round numbers to estimate & approximate Use inverse operations (add/subtract) Solve multi-step addition/subtraction problems		STATISTICS (S) Read & interpret line graphs to solve problems Draw line graphs Read and interpret tables, two way tables and timetables.		MULTIPLICATION & DIVISION (N) Find multiples and common multiples Find factors and common factors Square and cube numbers Find prime numbers Multiply & divide by 10, 100 and 1,000 Use multiples of 10, 100 and 1,000		PERIMETER & AREA (M) Measure perimeter Calculate perimeter Find: Area of rectangles Area of compound shapes Area of irregular shapes		CONSOLIDATION
Spring	MULTIPLICATION & DIVISION (N) Link multiplication to area Written multiplication (up to 4 digits by 2 digits) Written division with remainders (up to 4 digits by 1 digit)			FRACTIONS (N) Equivalent fractions Convert improper fractions to mixed numbers and vice versa Calculate fraction sequences Compare & order fractions greater than and less than 1 Add and subtract fractions within 1 whole Add three or more fractions Add and subtract mixed numbers Subtract fractions (including greater than 1) Multiply fractions and mixed numbers by whole numbers Use fractions as operators to find fractions of amounts					DECIMALS & PERCENTAGES (N) Decimals up to 2 decimal places Convert decimals to fractions Thousandths Convert thousandths to decimals Round decimals Understand percentages Percentages as fractions and decimals Equivalent fractions, decimals and percentages		CONSOLIDATION	
Summer	DECIMALS (N) Add & subtract decimals within 1 whole Decimal compliments to make one whole Add decimals (crossing the whole) Add & subtract decimals with same number of decimal places Add & subtract decimals with different number of decimal places Order decimal sequences Multiply and divide decimals by 10, 100 and 1,000				PROPERTIES OF SHAPE (N) Measure angles in degrees using a protractor Draw lines and angles accurately using a protractor Calculate angles on a straight line Calculate angles around a point Calculate lengths and angles in shapes Regular & irregular polygons Reason about 3-D shapes			POSITION & DIRECTION (G) Understand position in the first quadrant Reflect & translate shapes Reflect and translate with coordinates	CONVERTING UNITS OF MEASURE (M) Metric units (e.g. km/m/cm/mm) Imperial units Convert metric units Convert metric and imperial units of measure Convert units of time Use timetables		VOLUME (M) Understand volume Estimate volume and capacity Compare volume	CONSOLIDATION

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Ocker Hill Academy: Termly Overview for Maths In **YEAR 6**, children should **understand (Knowledge)** and **be able to (Skill)** ...

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Autumn	PLACE VALUE (N) Numbers to 10 million Compare & order any number Round any number to any degree of accuracy Calculate differences with negative numbers		ADDITION, SUBTRACTION, MULTIPLICATION & DIVISION (N) Add & subtract whole numbers (greater than 4 digits) Solve addition and subtraction multi-step problems Written multiplication (up to 4 digits by 2 digits) Written short division (up to 4 digits by 2 digits) Written long division (up to 4 digits by 2 digits) Identify common multiples, factors and prime numbers Solve problems using square and cube numbers Calculate using order of operations (BODMAS) Use mental calculations & estimation Reason from known facts				FRACTIONS (N) Simplify fractions Compare & order fractions Order fraction sequences on a number line Add & subtract fractions (including mixed operations) Multiply fractions by whole numbers Multiply fractions by fractions Divide fractions by whole numbers Use four rules and order of operations with fractions Find fractions of amounts Given fraction of amount-find the whole					POSITION & DIRECTION (G) Position in all four quadrants Translate & reflect shapes in all four quadrants	CONSOLIDATION
Spring	DECIMALS (N) Numbers to 3 decimal places Multiply & divide decimals by 10, 100 & 1,000 Multiply & divide decimals by whole numbers Convert fractions to decimals and vice versa Use decimals to solve problems		PERCENTAGES (N) Convert fractions to percentages & vice versa Equivalent fraction, decimals & percentages Order fractions, decimals & percentages Find percentages of amounts Find missing percentage values		ALGEBRA (A) Use simple formulae Solve one & two step equations Find all possible combinations of values Find one and two step rules for sequences		CONVERTING UNITS (N) Convert metric measures (to 3 decimal places) Calculate with metric measures Convert between miles & kilometres Imperial measures		PERIMETER, AREA & VOLUME (G) Recognise that shapes with the same area can have different perimeters & vice versa Use formulae to find area of triangle and parallelogram Estimate and calculate volume of cuboids using different units of measure		RATIO (N) Understand link between ratio & fractions Calculate ratio using knowledge of multiples and factors Use scale factors to calculate ratios of similar shapes	CONSOLIDATION	
Summer	PROPERTIES OF SHAPE (G) Draw 2-D shapes given dimensions & angles Find unknown angles Find vertically opposite angles Find unknown angles in regular polygons & special quadrilaterals Draw 3-D shapes & nets of 3-D shapes		STATISTICS (S) Read, interpret & draw line graphs Use line graphs to solve problems Understand properties of circles Read & interpret pie charts Solve percentage problems with pie charts Draw pie charts Calculate mean average			INVESTIGATIONS (POST SATS) Open ended maths investigations that explore in greater depth the knowledge covered in Key Stage 2							

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