

Oral/Mental starter: mental strategies, rapid recall, estimating, visual imagery, problem solving, explaining methods etc. are all covered in the left-hand page for each spread and enhanced by teacher input (with relevant mental questions in the Teacher's Resource). ***The calculations policy is to be covered regularly in lessons in the form of starters/plenaries or embedded into the topics***

CHAPTE R	TOPIC	CONTENT	OBJECTIVES: pupils will be taught to. . .
	SUMMER BOOKLET	GO THROUGH THE SUMMER BOOKLET	IDENTIFY AREAS OF DEVELOPMENT AND STARTING POINT FOR NUMERACY WORK
1	Whole Numbers and Decimals Topic 5 Place value, ordering and rounding of integers, powers and roots. Topic 1 Mental and Written Calculations.	Place value Ordering whole numbers Decimals and money Adding decimals Temperature Rounding and estimating Order of operations	<ul style="list-style-type: none"> Use place value and decimal notation in different context, including money Compare and order whole numbers Add decimals using mental and written methods Understand and order negative numbers in the context of temperature Round and number to the nearest 10,100,1000 Use and estimate to check a result Use the order of operations
2	Measures, Perimeter and Area Topic 1 Mental and Written Calculations. Topic 5 Place value, ordering and rounding of integers, powers & roots.	Measuring lines Reading scales Time Shapes Perimeter Area Metric units	<ul style="list-style-type: none"> Measure lengths in centimetres and millimetres Read and interpret scales in different contexts, including time Classify 2D shapes by their properties Calculate the perimeter of simple shapes Calculate or estimate the area of a shape by counting squares Choose and use standard metric units of measure
Revision and Half Term Assessment 1 To be completed after chapter 3. Homework to be used for revision.			
1 lesson on Numeracy revision and 1 lesson revision techniques, 1 lesson on test, 1 feedback.			
HALF TERM			
3	Expressions and Formulae	Using letters 1 Using letters 2 Adding with symbols Simplifying expressions Substitution Creating a formula	<ul style="list-style-type: none"> Use letters to represent unknown numbers Simplify algebraic expressions by collecting like terms Substitute whole numbers into expressions and formulae Derive a simple formula
4	Fractions, Decimals and Percentages Topic 9 Fractions, decimals, percentages, ratio and proportion.	Writing fractions Equivalent fractions Improper fractions Fractions of an amount 1 Fractions of an amount 2 Percentages Finding percentages Fractions, decimals and percentages	<ul style="list-style-type: none"> Use fractions to describe parts of a whole, including improper fractions Identify equivalent fractions Find fractions of a quantity Calculate simple percentages, including problems involving money Express a proportion as a fraction, a decimal or a percentage

5	Angles and 2D Shapes	Angles Adding angles Measuring angles Finding angles at a point Calculating angles Properties of triangles Angles in a triangle Compass turns	<ul style="list-style-type: none"> Estimate angles and use a protractor to measure them Distinguish between acute, obtuse and reflex angles Use the sum of angles at a point, on a straight line and in a triangle Classify triangles by their properties Find missing angles in a triangle Understand and use the points of a compass
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Revisions and Half Term Assessment 2
Homework to be used for revision

To be completed after chapter 6.

1 lesson on Numeracy revision and 1 lesson revision techniques, 1 lesson on test, 1 feedback.

CHRISTMAS

MYMATHS: BOOK 1A - YEAR 7 SCHEME OF WORK

LEVELS 3 TO 5

SPRING

CHAPTER	TOPIC	CONTENT	OBJECTIVES: pupils will be taught to . .
6	Graphs	Coordinates Coordinates with negative numbers Reading graphs Line graphs 1 Line graphs 2	<ul style="list-style-type: none"> Identify and plot coordinates in all four quadrants Construct and interpret line graphs in context
7	Adding and Subtracting Topic 1 Mental and Written Calculations.	Mental methods of addition Mental methods of subtraction Written addition and subtraction 1 Written addition and subtraction 2	<ul style="list-style-type: none"> Strengthen and extend mental methods of addition and subtraction Use efficient written methods to add and subtract whole numbers
8	Statistics	Planning and collecting data Organising data Reading lists and tables Reading and drawing pictograms Reading and drawing bar charts Reading pie charts Averages - the mode Averages – the median Comparing data – range and average	<ul style="list-style-type: none"> Plan how to collect and organise small sets of data from surveys and experiments Solve problems by interpreting data in lists and tables Construct and interpret statistical diagrams, including pictograms, bar charts, pie charts and line graphs Calculate statistics for small sets of data, including the mode, median and range

Revision and Half Term Assessment 3
Homework to be used for revision

To be completed after chapter 9.

1 lesson on Numeracy revision and 1 lesson revision techniques, 1 lesson on test, 1 feedback..

HALF TERM

9	Transformations and Symmetry	Lines of symmetry Reflection Translation	<ul style="list-style-type: none"> Identify lines of symmetry in a 2D shape Transform a shape by reflection in a mirror line
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Revision and Optional Assessment *(end of year exams.*
 . Homework to be used for revision

1 lesson on Numeracy revision and 1 lesson revision techniques, 1 lesson on test, 1 feedback

HALF TERM

14	Multiplying and dividing Topic 1 Mental and Written Calculations.	Multiplication Multiplying by 10 and 100 <i>Mental methods of multiplication</i> Written methods of multiplication <i>Mental methods of division</i> Division problems Written methods of division Calculator skills	<ul style="list-style-type: none"> Consolidate multiplication facts up to 12 x 12 Multiply by 10 and 100 Multiply whole numbers using mental and written methods Divide whole numbers using <i>mental and</i> efficient written methods Use a calculator and interpret the display in different contexts, including money
12	Constructions and 3D Shapes	3D shapes Nets of cubes Nets of other 3D shapes 2D representation of 3D shapes Measuring and drawing angles Drawing a triangle Introducing circles	<ul style="list-style-type: none"> Recognise and name common 3D shapes Construct simple nets of 3D shapes Use 2D representation to visualise 3D shapes Use a protractor to measure and draw angles Use a ruler and protractor to construct a triangle Know the parts of a circle
16	Probability	Introducing probability The probability scale 1 The probability scale 2 Sorting with Venn diagrams	<ul style="list-style-type: none"> Use the vocabulary and ideas of probability, drawing on experience Understand and use the probability scale from 0 to 1 Sort objects using a Venn diagram

SUMMER HOLIDAY