



THE DOVE SHELL FEDERATION INSPIRE MATHS LONG TERM PLAN

YEAR 1					
AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Unit 2 – Number Bonds Practice Book – Review 1 Unit 3 – Addition Within 10 Unit 4 – Subtraction with 10 Practice Book – Review 2	Unit 5 – Shape and Pattern (include National Curriculum teaching of 3D shape) Unit 7 – Numbers to 20 Unit 8 – Addition and Subtraction within 20	Unit 9 – Length Unit 10 – Mass <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Compare, describe and solve practical problems for: Capacity and volume. Unit 16 – Time <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Recognise and use language relating to dates including days of the week, months and years.	Unit 12 – Numbers to 40 Unit 13 – Mental Calculations Unit 14 – Multiplication Practice Book – Review 5	Unit 15 – Division Practice Book – Review 6 <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> 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. Unit 17 - Numbers to 100 Unit 18 - Money (1)	Unit 11 – Picture Graphs Practice Book – Review 4 Unit 19 – Money 2 Practice Book – Revision 2 Unit 6 – Ordinal Numbers Practice Book – Review 3 Practice Book – Revision 1
YEAR 2					
Unit 17 – Shapes and Patterns Unit 13 – Time (include National Curriculum teaching of sequencing intervals of time)	Unit 2 - Calculation (Addition and Subtraction within 1000) Practice Book – Review 1 Unit 14 - Volume Unit 8 - Length	Unit 9 – Mass Unit 3 - Using Models: Addition and Subtraction Unit 4 - Multiplication and Division Practice Book – Review 2	Unit 11 - Money Unit 12 - Fractions Practice Book – Review 5 <u>DISCRETE NATIONAL CURRICULUM TEACHING</u>	Unit 6 - Multiplying 4, 5 and 10 Practice Book – Review 3 REVISION	Unit 15 - Graphs Practice Book – Review 6 Unit 7 - Using Models: Multiplication and Division Practice Book – Revision 1

<p>Unit 1 - Numbers to 1000</p> <p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Read and write numbers to at least 100 in numbers and words.</p> <p>Recognise the place value of each digit in a two digit number (tens, ones).</p> <p>Compare and order numbers from 0 up to 100; use <, > and = signs.</p> <p><u>Half Term Assessment Assessment Book – Test 8, Challenging Problems 4</u></p>	<p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise).</p> <p><u>Half Term Assessment Assessment Book – Test 1</u></p>	<p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.</p> <p>Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</p> <p><u>Half Term Assessment Assessment Book – Test 2, Challenging Problems 1</u></p> <p><u>Assessment Book – Test 6, Challenging Problems 3</u></p>	<p>Write simple fractions for example, $\frac{1}{2}$ of 6=3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$.</p> <p>Unit 5 - Multiplying by 2 and 3</p> <p><u>Half Term Assessment Assessment Book – Test 6, Challenging Problems 3, Check-up 3</u></p>		<p>Unit 10 - Mental Calculation</p> <p>Practice Book – Review 4</p> <p>Unit 16 - Lines and Surface</p> <p>Practice Book – Revision 2</p>
YEAR 3					
<p>Unit 1 - Numbers to 10 000</p> <p>Unit 2 - Addition of Numbers within 10 000</p> <p>Practice Book – Review 1</p> <p>Unit 3 - Subtraction of Numbers within 10 000</p>	<p>Unit 4 - Solving Word Problems: Addition and Subtraction</p> <p>Practice Book – Review 2</p> <p>Practice Book – Revision 1</p> <p>Unit 5 -Multiplying by 6, 7, 8 and 9</p>	<p>Unit 7 – Division</p> <p>Unit 8 - Solving Word Problems 2: Multiplication and Division</p> <p>Unit 9 - Mental calculations</p> <p>Practice Book – Review 4</p>	<p><u>Unit 10 – Money (include National Curriculum teaching of adding and subtracting amounts of money to give change, using both £ and p in practical contexts).</u></p>	<p>Unit 13 - Bar graphs</p> <p>Unit 14 – Fractions</p> <p>Practice Book – Review 6</p> <p>Practice Book – Revision 3</p> <p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p>	<p>Unit 16 - Angles</p> <p>Unit 17 - Perpendicular and parallel lines</p> <p>Unit 18 - Area and perimeter</p> <p>Practice Book – Review 7</p> <p>Practice Book – Revision 4</p>

<p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Identify, represent and estimate numbers in different representations.</p> <p>Read and write numbers to 1000 in numerals and words.</p> <p>Add and subtract numbers with up to three digits using formal written methods of columnar addition and subtraction.</p> <p><u>Half Term Assessment Assessment Book – Test 1</u></p>	<p>Unit 6 – Multiplication Practice Book – Review 3 <u>Half Term Assessment Assessment Book – Test 2, Challenging Problems 1</u> <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Recognise the place value of each digit in a 3 digit number (hundreds, tens, ones).</p> <p>Compare and order numbers to 1000.</p>	<p>Practice Book – Revision 2 <u>Half Term Assessment Assessment book – Test 3</u> Assessment Book – Test 4, Challenging Problems 2</p>	<p>Unit 11 - Length, Mass and Volume Unit 12 - Solving Word Problems: Length, mass and volume Practice Book – Review 5 <u>Half Term Assessment Assessment Book – Test 5</u></p>	<p>Recognise and use fractions as numbers: Unit fractions and non-unit fractions with small denominators.</p> <p>Compare and order unit fractions with the same denominator within one whole for example, $5/7 + 1/7 = 6/7$.</p> <p>Compare and order unit fractions and fractions with the same denominators.</p> <p>Unit 15 – Time <u>Half Term Assessment Assessment Book – Test 6, Challenging Problems 3</u></p>	<p><u>End Of Year Assessment Assessment Book – Test 7</u> Assessment Book – Test 8, Challenging Problems 4</p>
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YEAR 4

<p>Unit 1 - Whole Numbers (1) Unit 2 – Whole Numbers (2) Practice Book – Review 1 Unit 3 – Whole Numbers (3) <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Count backwards through zero to include negative numbers.</p>	<p>Unit 4 – Tables and Line Graphs Practice Book – Review 2 Unit 5 – Fractions Unit 6 – Angles Practice Book – Review 3 <u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p>	<p>Unit 7 – Perpendicular and Parallel Lines Unit 8 – Squares and Rectangles Practice Book – Review 4 Practice Book – Revision 1 <u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p>	<p>Unit 9 – Decimals (1) Unit 10 – Decimals (2)</p>	<p>Unit 11 – Time Practice Book – Review 5 Unit 12 – Area and Perimeter Practice Book – Review 6 <u>Half Term Assessment Assessment Book – Test 5, Challenging Problems 3</u></p>	<p>Unit 13 – Symmetry Unit 14 – Tessellations Practice Book – Review 7 Practice Book – Revision 2 <u>End Of Year Assessment Assessment Book – Test 6, Challenging Problems 4</u></p>
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<p>Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.</p> <p>Find the effect of dividing a two digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.</p> <p><u>Half Term Assessment Assessment Book – Test 1</u></p>	<p>Add and subtract fractions with the same denominator.</p> <p><u>Half Term Assessment Assessment Book – Test 2, Challenging Problems 1 Assessment Book – Test 3</u></p>	<p>Describe positions on a 2D grid as coordinates in the first quadrant.</p> <p>Describe movements between positions as translations of a given unit to the left/right and up/down.</p> <p>Plot specified points and draw sides to complete a given polygon.</p> <p><u>Half Term Assessment Assessment Book – Test 4, Challenging Problems 2</u></p>			
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YEAR 5

<p>Unit 1 - Whole Numbers (1) Unit 2 - Whole Numbers (2)</p> <p>Practice Book – Review 1</p> <p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p>	<p>Unit 4 - Fractions (2)</p> <p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.</p> <p>Add and subtract and fractions with the same denominators that are</p>	<p>Unit 8 - Measurements</p> <p>Practice Book – Review 4</p> <p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.</p> <p>Unit 10 - Percentages Unit 11 - Angles</p>	<p>Unit 14 - Volume of Cubes and Cuboids (include National Curriculum teaching of estimating volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity).</p> <p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p>	<p><u>DISCRETE NATIONAL CURRICULUM TEACHING</u></p> <p>Solve problems involving converting between units of time.</p> <p>Complete, read and interpret information in tables, including timetables.</p> <p>Distinguish between regular and irregular</p>	<p>Unit 5 – Area of a triangle Unit 9 - Mean</p> <p>Practice Book – Review 5</p> <p>Unit 12 - Properties of Triangles and 4-sided Shapes</p> <p>Practice Book – Review 6</p> <p>Unit 13 - Geometrical Construction</p> <p>Practice Book – Review 7</p> <p>Practice Book – Revision 2</p>
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<p>Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.</p> <p>Use negative numbers in context, and calculate intervals across zero. Unit 3 - Fractions (1) Half Term Assessment Assessment Book – Test 1</p>	<p>multiples of the same number.</p> <p>Compare and order fractions whose denominators are all multiples of the same number.</p> <p>Practice Book – Review 2 Unit 7 - Decimals DISCRETE NATIONAL CURRICULUM TEACHING Read, write, order and compare numbers with up to three decimal places.</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place. Half Term Assessment Assessment Book – Test 2, Challenging Problems 1 Assessment Book – Test 4</p>	<p>(include National Curriculum teaching: Know angles and measure them in degrees (o): Estimate and compare acute, obtuse and reflex angles.</p> <p>Draw given angles and measure them in degrees). Half Term Assessment Assessment Book – Test 4</p>	<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19.</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³).</p> <p>Identify multiples and factors including finding all factor pairs of a</p>	<p>polygons based on reasoning about equal sides and angles.</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</p> <p>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.</p> <p>Unit 6 - Ratio Practice Book – Review 3 Practice Book – Revision 1</p>	<p>End Of Year Assessment Assessment Book – Test 3, Challenging Problems 2 Assessment Book – Test 5, Challenging Problems 3 Assessment Book – Test 6 Assessment Book – Test 7, Challenging Problems 4</p>
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YEAR 6					
<p>Unit 1 - Algebra Unit 2 - Angles in shapes and diagrams Unit 3 – Nets Practice Book – Review 1 <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Generate and describe linear number sequences.</p> <p>Find pairs of numbers that satisfy an equation with two unknowns.</p> <p>Multiply one digit numbers with up to two decimal places by whole numbers.</p> <p>Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for two digit numbers. <u>Half Term Assessment Assessment Book – Test 1 Assessment Book – Test 2</u></p>	<p>Unit 4 - Fractions Unit 5 - Ratio <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Compare and order fractions, including fractions >1.</p> <p>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.</p> <p>Divide numbers up to 4 digits by a one-digit and two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p> <p>Use written division methods in cases where the answer has up to two decimal places. <u>Half Term Assessment</u></p>	<p>Unit 6 – Percentage Unit 8 – Circles Unit 10 – Area and Perimeter (<u>include National Curriculum teaching</u>): Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.</p> <p>Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]</p> <p>Recognise when it is possible to use formulae for area and volume of shapes.</p> <p>Recognise that shapes with the same areas can have different perimeters and vice versa.</p>	<p>Unit 9 - Pie charts <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Solve comparison, sum and difference problems using information presented in a line graph. Practice Book – Review 3 Unit 11 - Volume of solids and liquids <u>DISCRETE NATIONAL CURRICULUM TEACHING</u> Solve problems involving similar shapes where the scale factor is known or can be found.</p> <p>Describe positions on the full coordinate grid (all four quadrants).</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. Practice Book – Review 4 Practice Book – Revision 2 <u>Half Term Assessment</u></p>	REVISION	<p>Unit 7 – Speed Practice Book – Review 2 Practice Book – Revision 1</p>

Assessment Book – Test 3, Challenging Problems 1	Assessment Book – Test 4 Assessment Book – Test 5	Convert between miles and kilometres. <u>Half Term Assessment</u> Assessment Book – Test 6, Challenging Problems 2 Assessment Book – Test 8 Assessment Book – Test 10	Assessment Book – Test 9, Challenging Problems 3 Assessment Book – Test 11		
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