



## Y2 Maths Overview 2020-21 (with reference to Westdale's Maths Learning Progression)

TERM/LEARNING OBJECTIVES:	ACTIVITIES/SONGS:	ASSESSMENT:
<p><b>Autumn Term : Numbers and Place Value (2weeks)</b></p> <p><b>I KNOW</b></p> <ul style="list-style-type: none"> <li>- I can count object to 100 and read and write numerals in numbers and words..</li> <li>- I can represent numbers to 100 use a range of concrete and pictorial models.</li> <li>- I can partition numbers to 100 and understand what each digit represents. (Not just into tens and ones e.g 58 is 5 tens and 8 ones, 4 tens and 18 ones , 3 tens and 28 ones etc)</li> <li>- I can use a part whole model to partition numbers ( not just into tens and ones ( see above)</li> <li>- I can use a place value chart to partition into tens and ones.</li> <li>- I can compare numbers using &lt;, &gt; and =</li> <li>- I can order objects and numbers.</li> </ul> <p><b>Autumn term : Addition and subtraction (2 weeks)</b></p> <p><b>KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can recall and use addition and subtraction facts to 20 fluently and use these to derive number facts for 100 (focusing on multiples of tens).</li> <li>- I can compare number sentences using &lt;, &gt; and =</li> <li>- I can add and subtract 1 and 10 and comment on the patterns.</li> <li>- I can add and subtract numbers using concrete objects, pictorial representations, and mentally, including:               <ul style="list-style-type: none"> <li>• two-digit number and ones</li> <li>• two-digit number and tens</li> <li>• two two-digit numbers</li> <li>• three one-digit numbers</li> </ul> </li> </ul> <p><b>Autumn term: Number multiplication and division ( 4 week)</b></p> <p><b>KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can count in 2s, 5s and 10s</li> <li>- I can count in 3's</li> <li>- I can recognise equal groups.</li> <li>- I can make equal groups.</li> <li>- I can add equal groups ( repeated addition)</li> <li>- I can use the x sign</li> <li>- I can write multiplication equations to match images.</li> <li>- I can use arrays to find commutative multiplication facts.</li> <li>- I know and use my 2, 5 and 10 times table.</li> <li>- I can divide by sharing objects into equal groups.</li> <li>- I can divide by making equal groups.</li> <li>- I can use my two times table to divide by two.</li> <li>- I recognise odd and even numbers.</li> <li>- I can use my five times table to divide by five.</li> <li>- I can use my ten times table to divide by ten.</li> </ul> <p><b>Autumn term: Measures length and height (2 weeks)</b></p> <p><b>KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can measure lengths in cm</li> <li>- I can measure lengths in m</li> <li>- I can compare lengths and heights.</li> <li>- I can order lengths.</li> <li>- I can solve problems using the 4 operations with a length and height context.</li> </ul> <p><b>Autumn term: Measures mass and temperature (2 weeks)</b></p> <p><b>KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can compare masses of objects using &lt;, &gt; and =</li> <li>- I can measure mass in g.</li> <li>- I can measure mass in kg</li> <li>- I can measure temperature in degrees centigrade.</li> <li>- I can use counting in 2s, 5s and 10s to read simple scales.</li> </ul>	<p>At Westdale when we introduce a new concept, we provide pupils with the opportunity to build competency by providing opportunities for children to experience concrete, pictorial and abstract mathematics.</p> <p>Concrete – children should have the opportunity to use concrete objects and manipulatives to help them understand what they are doing.</p> <p>Pictorial – Alongside this, children should use pictorial representations. These representations can then be used to help reason and solve problems.</p> <p>Abstract – both concrete and pictorial representations should support children's understanding of abstract methods.</p> <p>Within our lessons, children are given activities that develop their fluency, reasoning and problem solving skills.</p> <p>Key opportunities to promote maths mastery include:-</p> <p>Varied representations – including obvious, peculiar and non-examples</p> <p>Conceptual variation</p> <p>Stem sentences</p> <p>Challenges</p> <p>Fluency</p> <p>Scaffolded differentiation</p> <p>Generalised statements</p> <p>To support children's mathematical development children will be given a wide range of resources to use this includes but isn't limited to:- counting equipment, number lines, number cards, place value equipment, standard measures, measuring equipment, shapes, scaffold frames, everyday objects, images, songs/ rhymes, video clips, cross curricular opportunities and books.</p>	<p><b>Criteria:</b></p> <p><b>Number and place Value</b></p> <ul style="list-style-type: none"> <li>- Read and write numbers to at least 100 in numerals and words.</li> <li>- Recognise the place value of each digit in a two digit number (tens, ones).</li> <li>- Identify represent and estimate numbers using different representations including a number line.</li> <li>- Compare and order numbers from 0 up to 100: use &lt;, &gt; and = signs.</li> <li>- Use place value and number facts solve problems</li> <li>- Become more confident with numbers up to 100, recognising patterns within the number system and represent them in different ways, including spatial representations.</li> <li>- Partition numbers in different ways (for example, 23 = 20 + 3 and 23 = 10 + 13) to support subtraction.</li> <li>- Become fluent and apply their knowledge of numbers to reason with, discuss and solve problems that emphasise the value of each digit in two-digit numbers.</li> <li>- Begin to understand zero as a placeholder.</li> </ul> <p><b>Number addition and subtraction</b></p> <ul style="list-style-type: none"> <li>- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.</li> <li>- Add and subtract numbers using concrete objects, pictorial representations, and mentally, including:               <ul style="list-style-type: none"> <li>- two-digit number and ones</li> <li>- two-digit number and tens</li> <li>- two two-digit numbers</li> <li>- three one-digit numbers</li> </ul> </li> <li>- Pupils extend their understanding of the language of addition and subtraction to include sum and difference.</li> <li>- Pupils practise addition and subtraction to 20 to become increasingly fluent in deriving facts such as using 3 + 7 = 10; 10 - 7 = 3 and 7 = 10 - 3 to calculate 30 + 70 = 100; 100 - 70 = 30 and 70 = 100 - 30.</li> <li>- They check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (for example, 5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5). This establishes commutativity and associativity of addition.</li> </ul> <p><b>Number multiplication and division.</b></p> <ul style="list-style-type: none"> <li>- Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.</li> <li>- Calculate mathematical statements for multiplications and division within the multiplication tables and write them using the multiplication (x) and division (÷) and equals (=) signs.</li> <li>- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication/ division facts. This should include problems in contexts.</li> <li>- Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.</li> <li>- They use commutativity and inverse relations to develop multiplicative reasoning (for example, 4 × 5 = 20 and 20 ÷ 5 = 4).</li> </ul> <p><b>Measures length and height</b></p> <ul style="list-style-type: none"> <li>- Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm)) to the nearest appropriate unit, using rulers and measuring tapes.</li> <li>- Compare and order lengths and heights and record the results using ≤ ≥ and = .</li> </ul> <p><b>Measures mass and temperature</b></p> <ul style="list-style-type: none"> <li>- Choose and use appropriate standard units to estimate and measure mass (kg/g); temperature (°C) to the nearest appropriate unit, using scales and thermometers.</li> <li>- compare and order mass and record the results using ≤ ≥ and = .</li> </ul> <p><b>Methods:</b></p> <p>Ongoing daily maths assessment.</p> <p>A pupil really understands a mathematical concept, idea or technique if he or she can:</p> <ul style="list-style-type: none"> <li>• describe it in his or her own words</li> <li>• represent it in a variety of ways (e.g. using concrete materials, pictures and symbols)</li> <li>• explain it to someone else</li> <li>• make up his or her own examples (and non-examples)</li> <li>• see connections between it and other facts or ideas</li> <li>• recognise it in new situations and contexts</li> <li>• make use of it in various ways, including in new situations.</li> </ul> <p>If a pupil is working at greater depth they may also be able to:-</p> <ul style="list-style-type: none"> <li>• solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination</li> <li>• Independently explore and investigate mathematical contexts and structures, communicate results clearly and systematically explain and generalise the mathematics.</li> </ul> <p>Teacher will also use assessment tasks and quizzes/ tests.</p> <p><b>Evidence:</b></p> <p>Maths books, marking, observations, pupil reasoning, maths assessments, piccollage and teacher notes.</p>



<p><b>Spring : Statistics picture graphs (1 week)</b>  <b>I KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can make a tally chart.</li> <li>- I can draw a pictogram with 1-1 correspondence.</li> <li>- I can interpret a pictogram with 1-1 correspondence.</li> <li>- I can draw pictograms where the symbols represent 2, 5 or 10 items.</li> <li>- I can interpret pictograms where the symbols represent 2, 5 or 10 items.</li> </ul> <p><b>Spring : Calculations- problems (2 week)</b>  <b>I KNOW:</b></p> <ul style="list-style-type: none"> <li>- I understand addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</li> <li>- I recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> <li>- I check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (for example, <math>5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5</math>). This establishes commutativity and associativity of addition.</li> <li>- I can recall number bonds for 10 and use these to generate all number bonds for 100.</li> <li>- I can record addition and subtraction in columns supports place value and prepares for formal written methods with larger numbers</li> </ul> <p><b>Spring : Measures Money (2 week)</b>  <b>I KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can total amounts up to 100 pence</li> <li>- I can total whole pounds.</li> <li>- I can use the £ and p notation</li> <li>- I can select coins to make a total.</li> <li>- I can make totals in different ways.</li> <li>- I can compare two amounts in pounds or pence using <math>&lt;</math>, <math>&gt;</math> and <math>=</math></li> <li>- I can use addition to find totals of money:- <ul style="list-style-type: none"> <li>• two-digit number and ones</li> <li>• two-digit number and tens</li> <li>• two two-digit numbers</li> <li>• three one-digit numbers</li> </ul> </li> <li>- I can use addition and subtraction to find the difference between two amounts.</li> <li>- I can solve two-step problems.</li> </ul> <p><b>Spring : Geometry Properties of shapes (3 week)</b>  <b>I KNOW:</b></p> <ul style="list-style-type: none"> <li>- I can recognise and name 2d and 3d shapes</li> <li>- I can name shapes using their properties including irregular shapes.</li> <li>- I can count sides and vertices on 2d shapes</li> <li>- I can use my knowledge of 2d shape properties to create 2d shapes.</li> <li>- I recognise vertical lines of symmetry.</li> <li>- I can sort 2d shapes including shapes in different orientations.</li> <li>- I can use my knowledge of the properties of 2-D shapes to create patterns.</li> <li>- I can use my knowledge of 2-D shapes to identify the shapes of faces on 3-D shapes.</li> <li>- I can use my knowledge of faces and curved surfaces to help me identify edges on 3-D shapes.</li> <li>- I can use my knowledge of edges to help me to identify vertices on 3-D shapes.</li> <li>- I can use my knowledge of shape properties to sort 3-D shapes in different ways e.g. faces, shapes of faces, edges, vertices, if they roll, if they stack...</li> <li>- I can use my knowledge of the properties of 3-D shapes to create patterns including placing the shapes in different orientations.</li> </ul> <p><b>Spring : Number Fractions (3 weeks)</b>  <b>I KNOW:</b></p> <ul style="list-style-type: none"> <li>- I understand the concept of a whole as being one object or one quantity</li> <li>- I know that halving is splitting a whole into two equal parts.</li> <li>- I find halve of a set of objects or quantity.</li> <li>- I recognise quarters of shapes, objects and quantities.</li> <li>- I find quarters of shapes, objects and quantities.</li> <li>- I recognise one third is equal to one part out of three equal parts.</li> <li>- I find thirds of shapes, objects and quantities.</li> <li>- I know that the denominator represents the number of parts that a shape or quantity is split into.</li> <li>- I can recognise and use non-unit fractions <math>\frac{2}{3}</math> and <math>\frac{3}{4}</math>.</li> <li>- I know that <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math> are equivalent.</li> <li>- I find <math>\frac{3}{4}</math> of a quantity.</li> <li>- I can count in fractions-halves, thirds and quarters from any number up to 10.</li> </ul>	<p>At Westdale when we introduce a new concept, we provide pupils with the opportunity to build competency by providing opportunities for children to experience concrete, pictorial and abstract mathematics.</p> <p>Concrete – children should have the opportunity to use concrete objects and manipulatives to help them understand what they are doing.</p> <p>Pictorial – Alongside this, children should use pictorial representations. These representations can then be used to help reason and solve problems.</p> <p>Abstract – both concrete and pictorial representations should support children’s understanding of abstract methods.</p> <p>Within our lessons, children are given activities that develop their fluency, reasoning and problem solving skills.</p> <p>Key opportunities to promote maths mastery include:-</p> <p>Varied representations – including obvious, peculiar and non-examples</p> <p>Conceptual variation</p> <p>Stem sentences</p> <p>Challenges</p> <p>Fluency</p> <p>Scaffolded differentiation</p> <p>Generalised statements</p> <p>To support children’s mathematical development children will be given a wide range of resources to use this includes but isn’t limited to:- counting equipment, number lines, number cards, place value equipment, standard measures, measuring equipment, shapes, scaffold frames, everyday objects, images, songs/ rhymes, video clips, cross curricular opportunities and books.</p>	<p><b>Criteria: .</b></p> <p><b>Statistics picture graphs</b></p> <ul style="list-style-type: none"> <li>- Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>- Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> <li>- Ask and answer questions about totalling and comparing categorical data.</li> </ul> <p><b>Calculations problems</b></p> <ul style="list-style-type: none"> <li>- Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.</li> <li>- solve problems with addition and subtraction:</li> </ul> <p>-using concrete objects and pictorial representations, including those involving numbers, quantities and measures.</p> <p>-applying their increasing knowledge of mental and written methods.</p> <p>-derive and use related facts up to 100</p> <ul style="list-style-type: none"> <li>- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.</li> <li>- They check their calculations, including by adding to check subtraction and adding numbers in a different order to check addition (for example, <math>5 + 2 + 1 = 1 + 5 + 2 = 1 + 2 + 5</math>). This establishes commutativity and associativity of addition.</li> <li>- Recording addition and subtraction in columns supports place value and prepares for formal written methods with larger numbers</li> </ul> <p><b>Measures Money</b></p> <ul style="list-style-type: none"> <li>- Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value.</li> <li>- Find different combinations of coins that equal the same amounts of money.</li> <li>- Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.</li> </ul> <p><b>Geometry Properties of shape</b></p> <ul style="list-style-type: none"> <li>- Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.</li> <li>- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.</li> <li>- Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid.]</li> <li>- Compare and sort common 2-D and 3-D shapes and everyday objects.</li> </ul> <p><b>Number fractions</b></p> <ul style="list-style-type: none"> <li>- Recognise, find, name and write fractions <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math> and <math>\frac{3}{4}</math> of a length, shape, set of objects or quantity.</li> <li>- Write simple fractions for example, <math>\frac{1}{2}</math> of <math>6 = 3</math> and recognise the equivalence of <math>\frac{2}{4}</math> and <math>\frac{1}{2}</math></li> </ul> <p><b>Methods:</b></p> <p>Ongoing daily maths assessment.</p> <p>A pupil really understands a mathematical concept, idea or technique if he or she can:</p> <ul style="list-style-type: none"> <li>• describe it in his or her own words</li> <li>• represent it in a variety of ways (e.g. using concrete materials, pictures and symbols)</li> <li>• explain it to someone else</li> <li>• make up his or her own examples (and non-examples)</li> <li>• see connections between it and other facts or ideas</li> <li>• recognise it in new situations and contexts</li> <li>• make use of it in various ways, including in new situations.</li> </ul> <p>If a pupil is working at greater depth they may also be able to:-</p> <ul style="list-style-type: none"> <li>• solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination</li> <li>• Independently explore and investigate mathematical contexts and structures, communicate results clearly and systematically explain and generalise the mathematics.</li> </ul> <p>Teacher will also use assessment tasks and quizzes/ tests.</p> <p><b>Evidence:</b> Maths books, marking, observations, pupil reasoning, maths assessments, piccollage and teacher notes.</p>
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<p><b>Summer : Measures time and volume (3 weeks)</b></p> <p><b>I KNOW: Time</b></p> <ul style="list-style-type: none"> <li>- I can tell the time to the hour and half past the hour.</li> <li>- I can read and draw the times 'quarter to' and 'quarter past'.</li> <li>- I can read and show analogue time to 5-minute intervals.</li> <li>- I know there are 24 hours in a day and 60 minutes in an hour.</li> <li>- I can identify the start and end time of an event, and use these times to work out how long an event lasted.</li> <li>- I can compare times using 'longer' and 'shorter', and order times from longest to shortest and vice versa.</li> </ul> <p><b>I KNOW: Volume</b></p> <ul style="list-style-type: none"> <li>- I can compare the volume of containers using &lt; , &gt; and =.</li> <li>- I can use standard units of millilitres (ml)</li> <li>- I can use standard units of litres (l)</li> </ul> <p><b>SATs and revise and revisit topics</b></p>	<p>At Westdale when we introduce a new concept, we provide pupils with the opportunity to build competency by providing opportunities for children to experience concrete, pictorial and abstract mathematics.</p> <p>Concrete – children should have the opportunity to use concrete objects and manipulatives to help them understand what they are doing.</p> <p>Pictorial – alongside this children should use pictorial representations. These representations can then be used to help reason and solve problems.</p> <p>Abstract – both concrete and pictorial representations should support children's understanding of abstract methods.</p> <p>Within our lessons, children are given activities that develop their fluency, reasoning and problem solving skills. Key opportunities to promote maths mastery include:-</p> <p>Varied representations – including obvious, peculiar and non-examples</p> <p>Conceptual variation</p> <p>Stem sentences</p> <p>Challenges</p> <p>Fluency</p> <p>Scaffolded differentiation</p> <p>Generalised statements</p> <p>To support children's mathematical development children will be given a wide range of resources to use this includes but isn't limited to:- counting equipment, number lines, number cards, place value equipment, standard measures, measuring equipment, shapes, scaffold frames, everyday objects, images, songs/ rhymes, video clips, cross curricular opportunities and books.</p>	<p><b>Criteria: .</b></p> <p><b>Measures Time</b></p> <ul style="list-style-type: none"> <li>- Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Know the number of minutes in an hour and the number of hours in a day.</li> <li>- Compare and sequence intervals of time.</li> </ul> <p><b>Number fractions.</b></p> <ul style="list-style-type: none"> <li>- Recognise, find and name a half as one of two equal parts of an object, shape or quantity</li> <li>- Recognise half and quarter as 'fractions of' discrete and continuous quantities by solving problems using shapes, objects and quantities. For example, they could recognise and find half a length, quantity, set of objects or shape.</li> <li>- Connect halves and quarters to the equal sharing and grouping of sets of objects and to measures, as well as recognising and combining halves and quarters as parts of a whole.</li> </ul> <p><b>Measures Volume</b></p> <ul style="list-style-type: none"> <li>- Choose and use appropriate standard units to estimate and measure capacity (litres/ml) to the nearest appropriate unit, using measuring vessels.</li> <li>- Compare and order volume/capacity and record the results using &gt; , &lt; and =.</li> </ul> <p><b>Methods:</b></p> <p>Ongoing daily maths assessment.</p> <p>A pupil really understands a mathematical concept, idea or technique if he or she can:</p> <ul style="list-style-type: none"> <li>• describe it in his or her own words</li> <li>• represent it in a variety of ways (e.g. using concrete materials, pictures and symbols)</li> <li>• explain it to someone else</li> <li>• make up his or her own examples (and non-examples)</li> <li>• see connections between it and other facts or ideas</li> <li>• recognise it in new situations and contexts</li> <li>• make use of it in various ways, including in new situations.</li> </ul> <p>If a pupil is working at greater depth they may also be able to:-</p> <ul style="list-style-type: none"> <li>• solve problems of greater complexity (i.e. where the approach is not immediately obvious), demonstrating creativity and imagination</li> <li>• Independently explore and investigate mathematical contexts and structures, communicate results clearly and systematically explain and generalise the mathematics.</li> </ul> <p>Teacher will also use assessment tasks and quizzes/ tests.</p> <p>SATs assessments</p> <p><b>Evidence:</b> Maths books, marking, observations, pupil reasoning, maths assessments, piccollage and teacher notes.</p>
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