



# West Hove Infants- 'Aim High and Smile'



## MATHS PROGRESSION

		AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
YR	Skills	Counting & recognising numbers 1-5 Ordering numbers 1-5 One more/one less 1-5 Adding using concrete, pictorial and abstract methods	Counting & recognising numbers 6-10 Ordering numbers 6-8 One more/one less 6-8 Adding using concrete, pictorial and abstract methods Repeating simple patterns Number bonds to 5 Estimating amounts to 8 Recognising 0	Counting & recognising numbers 9-10 Ordering numbers 1-10 One more/one less 1-10 Comparing groups of objects to 10 Counting on and back to 10 Estimating Number bonds to 10 Sequencing events in the day (time)	Counting & recognising numbers 1-15 Ordering numbers 1-15 One more/one less 1-15 Subtracting using concrete, pictorial and abstract methods Counting on and back Estimating Doubling/halving/sharing Exploring repeating patterns Comparing how heavy Subitising up to 10	Counting & recognising numbers 1-20 Adding & Subtracting using a range of apparatus Counting on and back 1-20  Looking at 2D and 3D Shapes Recognising shapes through play and in environment Odd and even numbers Recognising teen numbers Counting in 2s Spatial awareness (position and direction)	Counting & recognising numbers 1-20 Ordering numbers 1-20 One more/one less 1-20 Adding & Subtracting using a range of apparatus Counting on and back 1-20 Measuring length and height Capacity





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Vocabulary	Names of numbers 1-5 Add and Plus Altogether One more One less Equal More/ less How many Next before	Names of numbers 1-8 Add and Plus Altogether One more One less Equal More/ less How many Next Before Number bond Ten frame Pattern What next? Same /different Zero Nothing	Names of numbers 0-10 Add and Plus Altogether One more One less Equal More/ less How many Next Before Number bond Ten frame Estimate How many? Days of the week First Now Next most	Repeating Pattern What next? Same /different Describe Add plus and Take away subtract First then now Double Half Share Names of numbers 0-15 Count on Count back Heavy/ light/ heaviest/ lightest	Repeating Pattern What next? Same /different Describe Add plus and Take away subtract First then now Double Half Share Names of numbers 0-20 Count on Count back Heavy/ light/ heaviest/ lightest Curved flat straight Corner side edge Names of 2D shapes Names of 3D shapes Odd Even equal	Repeating Pattern What next? Same /different Describe Add plus and Take away subtract First then now Double Half Share Names of numbers 0-20 Count on Count back Heavy/ light/ heaviest/ lightest Long/ length/ longer/ longest Short/ shorter/ shortest Tall/ taller/tallest Full/ empty/ half full Curved flat straight Corner side edge Names of 2D shapes Names of 3D shapes Odd Even equal
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### See also:

- Environment/Continuous provision planners.

### ELG: Number:

- Have a deep understanding of number to 10, including the composition of each number.
- Subitise (recognise quantities without counting) up to 5.
- Automatically recall (without reference to rhymes, counting or other aids) number bonds to 10, including double facts.

### Numerical patterns:

- Verbally count beyond 20, recognizing the pattern of the counting system.
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, or less than or the same as another quantity.
- Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.





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Y1	Skills	<p><b><u>Number: Place Value</u></b> Sort objects Count objects Represent objects Count, read and write forwards from any number 0 to 10 Count, read and write backwards from any number 0 to 10 Count one more Count one less One-to-one correspondence to start to compare groups Compare groups using language such as equal, more/ greater, less/ fewer Introduce &lt;, &gt; and = symbols Compare numbers Order groups of objects Order numbers Ordinal numbers (1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>) The number line</p> <p><b><u>Number: Addition &amp; Subtraction</u></b> Part-whole model Addition symbol</p>	<p><b><u>Geometry: Shape</u></b> Recognise and name 2D and 3D-shapes Sort 2-D and 3-D shapes Patterns with 2-D and 3-D shapes</p> <p><b><u>Number: Place Value (within 20)</u></b> Count forwards and backwards and write numbers to 20 in numerals and words Numbers from 11 to 20 Tens and ones Count one more and one less Compare groups of objects Compare numbers Order groups of objects Order numbers</p>	<p><b><u>Number: Addition and Subtraction (within 20)</u></b> Adding by counting on Find and make number bonds Add by making 10 Subtraction – not crossing 10 Subtraction – crossing 10 Related facts Compare number sentences</p> <p><b><u>Place Value (within 50)</u></b> Numbers to 50 Tens and ones Represent numbers to 50 One more one less Compare objects within 50 Compare and order numbers within 50 Count in 2s and 5s</p>	<p><b><u>Measurement: Length and Height</u></b> Compare lengths and heights Measure length</p> <p><b><u>Measurement: Weight and Volume</u></b> Introduce weight and mass Measure and compare mass Introduce capacity and volume Measure and compare capacity</p>	<p><b><u>Number: Multiplication and Division (reinforce multiples of 2,5 and 10 to be included)</u></b> Count in 10s Make equal groups – grouping and sharing Add equal groups Make arrays Make doubles</p> <p><b><u>Number: Fractions</u></b> Find a half and a quarter</p> <p><b><u>Geometry: Position and Direction</u></b> Describe turns and position</p> <p><b><u>Number: Place value (within 100)</u></b> Counting to 100 Partitioning numbers Comparing and ordering numbers One more one less</p>	<p><b><u>Measurement: Money</u></b> Recognising coins and notes Counting in coins</p> <p><b><u>Measurement: Time</u></b> Before and after Dates Time to the hour and to the half hour Writing and comparing time</p>
		<p><b><u>Number: Addition and Subtraction (within 20)</u></b> Adding by counting on Find and make number bonds Add by making 10 Subtraction – not crossing 10 Subtraction – crossing 10 Related facts Compare number sentences</p> <p><b><u>Place Value (within 50)</u></b> Numbers to 50 Tens and ones Represent numbers to 50 One more one less Compare objects within 50 Compare and order numbers within 50 Count in 2s and 5s</p>	<p><b><u>Measurement: Length and Height</u></b> Compare lengths and heights Measure length</p> <p><b><u>Measurement: Weight and Volume</u></b> Introduce weight and mass Measure and compare mass Introduce capacity and volume Measure and compare capacity</p>	<p><b><u>Number: Multiplication and Division (reinforce multiples of 2,5 and 10 to be included)</u></b> Count in 10s Make equal groups – grouping and sharing Add equal groups Make arrays Make doubles</p> <p><b><u>Number: Fractions</u></b> Find a half and a quarter</p> <p><b><u>Geometry: Position and Direction</u></b> Describe turns and position</p> <p><b><u>Number: Place value (within 100)</u></b> Counting to 100 Partitioning numbers Comparing and ordering numbers One more one less</p>	<p><b><u>Measurement: Money</u></b> Recognising coins and notes Counting in coins</p> <p><b><u>Measurement: Time</u></b> Before and after Dates Time to the hour and to the half hour Writing and comparing time</p>		





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	<p>Fact families – addition facts Find number bonds for numbers within 10 Systematic methods for number bonds within 10 Compare number bonds Addition – adding together Addition – adding more Finding a part Subtraction symbol Subtraction – taking away, how many left? Crossing out Subtraction – finding a part, breaking apart Fact families – the 8 facts Subtraction – counting back</p>					
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Vocabulary	
equal more/ greater less/ fewer systematically number bonds resources/ equipment number line number track forwards backwards groups sort represent total/ whole/ altogether zero addition number sentence partition part whole swapping inequality symbols <> tens and ones	Shape names patterns/ repeat orientation face side surface teen numbers subtraction number sentence partition part whole swapping inequality symbols <> tens and ones
Systematically Number bond Same and different Represent Calculations Partition Taking away/ subtraction Difference Bar model Symbols Tens and ones Digits Sorting More less Equal	Sorting More less Equal Compare Length Height Size Accuracy Straight Heavy/ light Heavier/ lighter Heaviest/ lightest Prove Balance Weighing scale Level
Same different Equal unequal Groups Double Half quarter Split/ share Whole Shapes – half an object Amount Full, half, quarter and three-quarter turn Direction Left, right, forwards and backwards Top, in between, bottom, above and below Hundred square Digits Symbols < > = most, bigger, biggest, larger, largest, smaller, smallest, least first, second, third (ordinal numbers)	Coins Value Pence Pounds Equivalent Smallest largest Morning afternoon evening First next then Today yesterday tomorrow Months O'clock Hour hand Minute hand Half past Seconds minutes hours Faster slower earlier later





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Y2	Skills	<p><b><u>Place Value</u></b> Count to 100 and read and write numbers in numerals and words. Represent numbers to 100. Tens and ones with a part-whole model Tens and ones using addition Use a place value chart Compare objects and numbers Order objects and numbers Count in 2s, 3s, 5s and 10s</p> <p><b><u>Addition &amp; Subtraction</u></b> Fact families – bonds to 20 Check calculations Compare number sentences Related facts Bonds to 100 (tens) Add and subtract 1s 10 more and 10 less</p>	<p><b><u>Money</u></b> Count money – pence Count money – pounds (notes and coins) Count money – notes and coins Select money Make the same amount Compare money Find the total Find the difference Find change Two-step problems</p> <p><b><u>Multiplication &amp; Division</u></b> Recognise equal groups Make equal groups Add equal groups Multiplication sentences using the x symbol Multiplication sentences from pictures Use arrays 2 times-table 5 times-table</p>	<p><b><u>Multiplication &amp; Division</u></b> Make equal groups - sharing Make equal groups – grouping Divide by 2 Odd &amp; even numbers Divide by 5 Divide by 10</p> <p><b><u>Statistics</u></b> Make tally charts Draw pictograms (1-1) Interpret pictograms (1-1) Draw pictograms (2,5 and 10) Interpret pictograms (2,5 and 10) Block diagrams</p> <p><b><u>Properties of Shape</u></b> Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry Sort 2-d shapes Make patterns with 2-D shapes</p>	<p><b><u>Fractions (Continued from Spring 1)</u></b></p> <p><b><u>Time</u></b> O'clock and half past Quarter past and quarter to Telling time to 5 minutes Hours and days Find durations of time Compare durations of time</p> <p><b><u>Length, Height and Mass</u></b> Measure length (cm) Measure length (m) Compare lengths Order lengths Four operations with lengths</p> <p><b><u>Mass, Capacity and Temperature</u></b> Compare mass Measure mass in grams Measure mass in kilograms Compare volume</p>	<p><b><u>Problem solving and efficient methods</u></b> New learning and consolidation of problem solving techniques</p> <p><b><u>SATs</u></b> <b><u>Year 2 SATs</u></b> Arithmetic and Reasoning papers</p> <p><b><u>Assessment and Consolidation</u></b> 1 week</p> <p><b><u>Position and Direction</u></b> Describing movement Describing turns Describing movement and turns Making patterns with shapes</p>	<p><b><u>Mass, Capacity and Temperature</u></b> Year 2 practical activities and investigations</p> <p><b><u>Place Value</u></b> Recap of Year 2 objectives 3 digit numbers</p> <p><b><u>Addition and Subtraction</u></b> Recap of Year 2 objectives</p> <p><b><u>Investigations</u></b> Child led investigations</p>





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		<p>Add and subtract 10s Add a 2-digit and 1-digit number – crossing ten Subtract a 1-digit number from a 2-digit – crossing ten Add two 2-digit numbers – not crossing ten – add ones and add tens Add two 2-digit numbers – crossing ten – add ones and add tens Subtract a 2-digit number from a 2-digit number – not crossing ten Subtract a 2-digit number from a 2-digit number – crossing ten – subtract ones and tens Bonds to 100 (tens and ones) Add three 1-digit number</p>	<p>10 times-table</p>	<p>Count faces on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Make patterns with 3-D shapes <b>Fractions</b> Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit fractions Non-unit fractions Equivalence of <math>\frac{1}{2}</math> and <math>\frac{2}{4}</math> Find three quarters Count in fractions</p>	<p>Millilitres Litres Temperature</p>		
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Vocabulary	<b>Place Value</b>	<b>Money</b>	<b>Statistics</b>	<b>Fractions</b>	<b>See previous vocabulary used</b>	<b>See previous vocabulary used</b>
	Numerals words	Pence	Tally charts	Whole	<b>Position &amp; Direction</b> Movement Turns Patterns Shapes Forwards Backwards Up Down Left Right Straight Line Directions Grid Moved Record Clockwise Anti-clockwise	
	Represent	Pounds	Systematic	Object		
	Part-whole	Notes	Method	Quantity		
	Addition	Coins	Recording	Equal		
	Place value	Select	Data	Unequal		
	Compare	Amount	Total	Parts		
	Order	Compare	Altogether	Half		
	Count	Total	More	Halves		
	Non-consecutive	Difference	Less	Numerator		
	Strategy	Symbols	Difference	Denominator		
	More/less	Convert	Groups	Length		
	Numberlines	Lowest	Pictograms	Shape		
	Digit	Greatest	Columns	Quarter		
	Partitioning	Equals	Rows	Third		
	Recombine	<b>Multiplication &amp; Division</b>	Horizontal	Fifth		
	Patterns	Repeated addition	Vertical	Unit fraction		
	Bonds	Represent	Symbol	Equivalent		
	Relationship	Total	Compare	Two quarters		
	Bar models	Multiply	Block diagrams	Three quarters		
Inverse	'lots of'	<b>Properties of shape</b>	one half			
Calculation	'groups of'	Properties	<b>Time</b>			
Similarities/differences	Array	2-D shape	Hour			
Commutativity	Divide	3-D shape	Half part			
<b>Addition &amp; Subtraction</b>	Sharing	Square	O'clock			
Related facts	Objects	Triangle	Minute			
Relationship	Equal	Rectangle	Hand			
Estimating	Equally	Circle	Quarter to			
	Groups	Oval	Quarter past			
		Semi-circle	5 minutes			





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		Calculation Greater than Less than Equal to Symbols Tens Ones Similarities Differences Single digit Multiple Partition Number line Two-digit Columns Total Altogether	Division Multiplication Times Odd Even Pattern	Pentagon Hexagon Heptagon Octagon Sides Vertex Vertices Vertical Lines of symmetry Sort Patterns Face Surface Curved Edge Square-based pyramid Triangular prism Rectangular prism Cone Cuboid Cube Cylinder Sphere <b>Fractions (see Spring 2)</b>	5 minute intervals Duration Longer Shorter Compare <b>Mass, Capacity &amp; Temperature</b> Mass Objects Balance Scales Order Heavier Lighter Predict Weigh Grams Units Estimation Symbol Kilograms Measure Volume Container Capacity Quarter Half Three quarters full Investigate Smallest		
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					Largest Least Most Millilitres (ml) Litres Temperature Thermometers 'degrees Centigrade' Higher Warmer Lower Increased Decreased Colder		
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