

Crosby Primary School
Mathematics Progression Document – Foundation/Key Stage 1



	Foundation	Year 1	Year 2
Fluency	<ul style="list-style-type: none"> Count reliably with numbers 1 to 20 Say which is 1 more 1 less (to 20) Order number to 20 <ul style="list-style-type: none"> Add and subtract two single digit numbers <ul style="list-style-type: none"> Use everyday language to talk about weight, capacity, position, distance, time & money to compare quantities/objects Explore characteristics of objects/shapes & use math language to describe Recognise, patterns 	<ul style="list-style-type: none"> Count, read and write numbers to 100 in numerals Identify 1 more 1 less Count in multiples of 2,5 and 10 Identify and represent number using concrete objects, pictorial representation and number line Use language: equal to, more/ less than (fewer), most/least <ul style="list-style-type: none"> Represent and use number bonds and related subtraction facts within 20 Read/write mathematical statements involving + - = signs Add /subtract 1 & 2 digit numbers to 20 include '0' <ul style="list-style-type: none"> Begin to recognise, find and name a half and quarter <ul style="list-style-type: none"> Compare, describe: length/height eg long/short, longer/shorter, tall/short, double half mass/weight eg heavy/light, heavier than/lighter than, capacity and volume eg full/empty, more/less than, half/half full/quarter time eg quicker/slower/earlier/later Begin to tell the time (hour and half-past) Recognise and name common 2-D shapes include rectangles squares, circles, triangles Recognise and common 3-D shapes include cuboids cubes, pyramids, spheres Measure and begin to record, length/ height, mass /weight, capacity/ volume Recognise and know the value of different denominations, coins and notes 	<ul style="list-style-type: none"> Know the number bonds to 20 Count in steps of 2, 3 and 5 from 0, and in tens from any number, forwards and backward Compare and order numbers from 0 up to 100 and use < > = and = signs correctly Recognise the place value of each digit in a 2 digit number Identify/represent numbers using different representation including a number line Read and write numbers to 100 in numerals and words <ul style="list-style-type: none"> Recall and use addition and subtraction facts to 20 and 100. Fluently to 20 Add and subtract numbers using using concrete objects, pictorial representations including those involving numbers, quantities, measures -2 digit & ones -2digit no & tens -two 2 digit numbers -add 3 one digit numbers <ul style="list-style-type: none"> Recall and use multiplication/division facts 2,5 &10 multiplication tables Recognise odd and even numbers Calculate the mathematical statements for multiplication and division within the multiplication tables/ write them using $\times / =$ <ul style="list-style-type: none"> Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, and $\frac{3}{4}$ of a length, shape, set of objects or quantity Write simple fractions of numbers eg. $\frac{1}{2}$ of 6=3 Recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ <ul style="list-style-type: none"> Use maths vocabulary to describe position, direction /movement Answer questions totalling and comparing categorical data Recognise/use symbols for £ /p pence combine amounts to make a value Choose and use appropriate standard units to estimate/measure: length /height any direction -cm/m --mass kg/g – temperature –capacity l/ ml to nearest unit– use rulers, scales, thermometers & vessels Use a range of measures, recognise, describe, draw, compare and order length, mass, volume/capacity and record using >, < = Compare/sequence intervals of time, tell the time to 5 minutes, quarter past/to Identify and describe the properties of 2D/3D shape Order and arrange mathematical objects in patterns or sequences Interpret and construct simple pictogram, tally charts, block diagrams, simple tables

	Foundation	Year 1	Year 2
Reasoning	<ul style="list-style-type: none"> Reason with counting numbers 1 to 20 Reason with 1 more 1 less (to 20) Reason with ordering numbers to 20 Reason with add and subtract two single digit numbers Count on /back to find the answer Explore characteristics of objects/shapes & use math language to describe Create and describe patterns 	<ul style="list-style-type: none"> Reason with count, read and write numbers to 100 in numerals Reason with identify 1 more 1 less Reason with multiples of 2,5 and 10 Reason with representing number using concrete objects, pictorial representation and number line Reason with language: equal to, more/ less than (fewer), most/least Reason with representation and use of number bonds and related subtraction facts within 20 Interpret mathematical statements involving + - = signs Reason with add /subtract 1 & 2 digit numbers to 20 include '0' Reason with recognise, find and name a half/quarter Reason with compare/describe for: length/height eg long/short, longer/shorter, tall/short, double half mass/weight eg heavy/light, heavier than/lighter than, capacity and volume eg full/empty, more/less than, half/half full/quarter time eg quicker/slower/earlier/later Reason with time (hour and half-past) Reason with names of common 2-D shapes include rectangles squares, circles, triangles Reason with common 3-D shapes include cuboids cubes, pyramids, spheres Reason with measure/record of length/ height, mass /weight , capacity/ volume Reason with value of different denominations, coins and notes Sequence events in chronological order, use language days, weeks, months, years Describe position, direction & movement include half, quarter and three-quarter turns 	<ul style="list-style-type: none"> Reason with number bonds to 20 Reason with counting in steps of 2, 3 and 5 from 0, and in tens from any number Reason with compare and order numbers from 0 up to 100 and use < > and = signs correctly Reason with place value of each digit in a 2 digit number Reason with identify/ represent and estimate numbers using different representation including a number line Reason with addition and subtraction facts to 20 and 100. Reason with add and subtract numbers using concrete objects, pictorial representations including those involving numbers, quantities, measures -2 digit & ones -2digit no & tens -two 2 digit numbers -add 3 one digit numbers <ul style="list-style-type: none"> Apply an increasing knowledge of mental and written methods Show that addition of two numbers can be done in any order commutative and subtraction of one number from another can not Recognise and use the inverse relationships between addition/subtraction & use it to check calculations and missing number problems Reason with multiplication/division facts 2,5 &10 multiplication tables Reason with odd and even numbers Reason with calculation of mathematical statements for multiplication and division within the multiplication tables/ write them using \times / = Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Reason with fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, and $\frac{3}{4}$ of a length, shape, set of objects or quantity Reason with simple simple fractions eg. $\frac{1}{2} \times 6=3$ Reason with the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$ Reason describing position, direction /movement Compare and sort common 2-D/3-D shapes and everyday objects Ask and reason with questions totalling and comparing categorical data Reason with symbols for £ /p pence combine amounts to make a value Reason with estimate/measure: length /height any direction -cm/m -- mass kg/g – temperature –capacity l/ ml to nearest unit– use rulers, scales, thermometers & vessels Reason with measures: recognise, describe, draw, compare and order length, mass, volume/capacity and record using >, < = Compare/sequence intervals of time, tell the time to 5 minutes, quarter past/to Reason with properties of 2D/3D shape Order and arrange mathematical objects in patterns or sequences Reason with Interpret and construct simple pictogram, tally charts, block diagrams, simple tables

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Solve Problems	<ul style="list-style-type: none"> • Solve problems including doubling, halving and sharing • Solve problems about about weight, capacity, position, distance , time & money 	<ul style="list-style-type: none"> • Solve one-step problems that involving add/ subtraction using pictorial representations & missing number problems • Solve one step problems involving multiplication/ division, calculating the answer using concrete objects and pictorial representations and arrays with support of the teacher • Solve practical problems for: length/height eg long/short, longer/shorter, tall/short, double half mass/weight eg heavy/light, heavier than/lighter than, capacity and volume eg full/empty, more/less than, half/half full/quarter time eg quicker/slower/earlier/later 	<ul style="list-style-type: none"> • Use place value to solve and number facts to solve problems • Solves problems with addition and subtraction • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, & multiplication and division facts, including problems in context • Solve simple problems in practical context, add/subtraction of money, same unit, change