Carlisle Infant School
Mathematics: EYFS Development Matters and KS1 National Curriculum Progression Grid

Reception	Year 1	Year 2

Progression – Place Value | **Progression – Place Value** | **Progression – Place Value**

Reception

Autumn

Count numbers to 5 - develop confidence in counting numbers one, two, three before moving onto four and then five

Represent numbers to 5 - develop confidence in representing numbers one, two, three before moving onto four and then five

Comparing groups: compare quantities of identical objects, compare quantities of non-identical objects

Spring

Count numbers to 10 - develop confidence in counting numbers 6, 7 and 8 before counting to 9 and then 10

Represent numbers to 10

Compare groups up to 10

Summer

Develop confidence in counting to 20

Represent numbers to 20

Begin understanding of 10s and 1s

Year 1

Autumn (within 10)

1 Sort objects
2 Count objects
3 Count objects from a larger group
4 Represent objects
5 Recognise numbers as words
6 Count on from any number
7 1 more
8 Count backwards within 10
9 1 less
10 Compare groups by matching
11 Fewer, more, same
12 Less than, greater than, equal to
13 Compare numbers
14 Order objects and numbers
15 The number line

Spring (within 20)

1 Count within 20
2 Understand 10
3 Understand 11, 12 and 13
4 Understand 14, 15 and 16
5 Understand 17, 18 and 19
6 Understand 20
7 1 more and 1 less
8 The number line to 20
9 Use a number line to 20
10 Estimate on a number line to 20
11 Compare numbers to 20
12 Order numbers to 20

Spring (within 50)

1 Count from 20 to 50
2 20, 30, 40 and 50
3 Count by making groups of tens
4 Groups of tens and ones
5 Partition into tens and ones
6 The number line to 50
7 Estimate on a number line to 50
8 1 more, 1 less

Summer (within 100)

1 Count from 50 to 100
2 Tens to 100
3 Partition into tens and ones
4 The number line to 100
5 1 more, 1 less
6 Compare numbers with the same number of tens
7 Compare any two numbers

Year 2

Autumn

1 Numbers to 20
2 Count objects to 100 by making 10s
3 Recognise tens and ones
4 Use a place value chart
5 Partition numbers to 100
6 Write numbers to 100 in words
7 Flexibly partition numbers to 100
8 Write numbers to 100 in expanded form
9 10s on the number line to 100
10 10s and 1s on the number line to 100
11 Estimate numbers on a number line
12 Compare objects
13 Compare numbers
14 Order objects and numbers
15 Count in 2s, 5s and 10s
16 Count in 3s

Carlisle Infant School
Mathematics: EYFS Development Matters and KS1 National Curriculum Progression Grid

Reception	Year 1	Year 2
Progression – Addition and Subtraction	**Progression – Addition and Subtraction**	**Progression – Addition and Subtraction**
Autumn Sorting: sort objects into groups Introduce '0' as a representation of 'nothing' and one less than one Recognise changes within 5: one more, one less **Spring** Begin to learn and memorise the number bonds to five (including number bonds of 1, 2, 3, 4 and 5) Addition to 10: combine two groups to find the whole Learn number bonds to 10 - using the 10 frame Learn number bonds to 10 - using the part-whole model **Summer** Count on and back to solve addition and subtraction calculations	**Autumn (within 10)** 1 Introduce parts and wholes 2 Part-whole model 3 Write number sentences 4 Fact families – addition facts 5 Number bonds within 10 6 Systematic number bonds within 10 7 Number bonds to 10 8 Addition – add together 9 Addition – add more 10 Addition problems 11 Find a part 12 Subtraction – find a part 13 Fact families – the eight facts 14 Subtraction – take away/cross out (How many left?) 15 Take away (How many left?) 16 Subtraction on a number line 17 Add or subtract 1 or 2 **Spring (within 20)** 1 Add by counting on within 20 2 Add ones using number bonds 3 Find and make number bonds to 20 4 Doubles 5 Near doubles 6 Subtract ones using number bonds 7 Subtraction – counting back 8 Subtraction – finding the difference 9 Related facts 10 Missing number problems	**Autumn** 1 Bonds to 10 2 Fact families - addition and subtraction bonds within 20 3 Related facts 4 Bonds to 100 (tens) 5 Add and subtract 1s 6 Add by making 10 7 Add three 1-digit numbers 8 Add to the next 10 9 Add across a 10 10 Subtract across 10 11 Subtract from a 10 12 Subtract a 1-digit number from a 2-digit number (across a 10) 13 10 more, 10 less 14 Add and subtract 10s 15 Add two 2-digit numbers (not across a 10) 16 Add two 2-digit numbers (across a 10)

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Mathematics: EYFS Development Matters and KS1 National Curriculum Progression Grid

Reception	Year 1	Year 2
Progression – Multiplication and Division	**Progression – Multiplication and Division**	**Progression – Multiplication and Division**

<mark>Summer</mark>
Consider numerical patterns in number including:
   - doubling
   - halving and sharing
   - odds and evens
	<mark>Summer</mark>
	1 Count in 2s
	2 Count in 10s
	3 Count in 5s
	4 Recognise equal groups
	5 Add equal groups
	6 Make arrays
	7 Make doubles
	8 Make equal groups - grouping
	9 Make equal groups – sharing
		<mark>Spring</mark>
		1 Recognise equal groups
		2 Make equal groups
		3 Add equal groups
		4 Introduce the multiplication symbol
		5 Multiplication sentences
		6 Use arrays
		7 Make equal groups – grouping
		8 Make equal groups – sharing
		9 The 2 times-table
		10 Divide by 2
		11 Doubling and halving
		12 Odd and even numbers
		13 The 10 times-table
		14 Divide by 10
		15 The 5 times-table
		16 Divide by 5

Progression – Fractions	**Progression – Fractions**	**Progression – Fractions**
	<mark>Summer</mark> 1 Recognise a half of an object or a shape 2 Find a half of an object or a shape 3 Recognise a half of a quantity 4 Find a half of a quantity 5 Recognise a quarter of an object or a shape 6 Find a quarter of an object or a shape 7 Recognise a quarter of a quantity 8 Find a quarter of a quantity	<mark>Summer</mark> 1 Introduction to parts and whole 2 Equal and unequal parts 3 Recognise a half 4 Find a half 5 Recognise a quarter 6 Find a quarter 7 Recognise a third 8 Find a third 9 Find the whole 10 Unit fractions 11 Non-unit fractions 12 Recognise the equivalence of a half and two quarters 13 Recognise three-quarters 14 Find three-quarters 15 Count in fractions up to a whole

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Mathematics: EYFS Development Matters and KS1 National Curriculum Progression Grid

Reception	Year 1	Year 2
Progression – Measurement: Length and Height	**Progression – Measurement: Length and Height**	**Progression – Measurement: Length and Height**
Summer Use non standard measures to begin to identify: -length, height and distance	**Spring** 1 Compare lengths and heights 2 Measure length using objects 3 Measure length in centimetres	**Spring** 1 Measure in centimetres 2 Measure in metres 3 Compare lengths and heights 4 Order lengths and heights 5 Four operations with lengths and heights
Progression – Measurement: Mass and Volume	**Progression – Measurement: Mass and Volume**	**Progression – Measurement: Mass and Volume (inc. capacity and temperature)**
Summer Use non standard measures to begin to identify: -weight -capacity	**Spring** 1 Heavier and lighter 2 Measure mass 3 Compare mass 4 Full and empty 5 Compare volume 6 Measure capacity 7 Compare capacity	**Spring** 1 Compare mass 2 Measure in grams 3 Measure in kilograms 4 Four operations with mass 5 Compare volume and capacity 6 Measure in millilitres 7 Measure in litres 8 Four operations with volume and capacity 9 Temperature
Progression – Measurement: Money	**Progression – Measurement: Money**	**Progression – Measurement: Money**
	Summer 1 Unitising 2 Recognise coins 3 Recognise notes 4 Count in coins	**Spring** 1 Count money – pence 2 Count money – pounds (notes and coins) 3 Count money – pounds and pence 4 Choose notes and coins 5 Make the same amount 6 Compare amounts of money 7 Calculate with money 8 Make a pound 9 Find change 10 Two- problems
Progression – Measurement: Time	**Progression – Measurement: Time**	**Progression – Measurement: Time**
Autumn Time: describing events in a day	**Summer** 1 Before and after 2 Days of the week 3 Months of the year 4 Hours, minutes and seconds 5 Tell the time to the hour 6 Tell the time to the half hour	**Summer** 1 O'clock and half past 2 Quarter past and quarter to 3 Tell time past the hour 4 Tell time to the hour 5 Tell the time to 5 minutes 6 Minutes in an hour 7 Hours in a day

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Reception	Year 1	Year 2
Progression – Geometry: Shape	**Progression – Geometry: Shape**	**Progression – Geometry: Shape**
Spring Carry out activities which develop spatial awareness Begin to recognise and name common 2D shapes Begin to recognise and name common 3D shapes **Summer** Explore simple patterns Make simple patterns Explore more complex patterns	**Autumn** 1 Recognise and name 3-D shapes 2 Sort 3-D shapes 3 Recognise and name 2-D shapes 4 Sort 2-D shapes 5 Patterns with 2-D and 3-D shapes	**Autumn** 1 Recognise 2-D and 3-D shapes 2 Count sides on 2-D shapes 3 Count vertices on 2-D shapes 4 Draw 2-D shapes 5 Lines of symmetry on shapes 6 Use lines of symmetry to complete shapes 7 Sort 2-D shapes 8 Count faces on 3-D shapes 9 Count edges on 3-D shapes 10 Count vertices on 3-D shapes 11 Sort 3-D shapes 12 Make patterns with 2-D and 3-D shapes
Progression – Geometry: Position and Direction	**Progression – Geometry: Position and Direction**	**Progression – Geometry: Position and Direction**
	Summer 1 Describe turns 2 Describe position - left and right 3 Describe position - forwards and backwards 4 Describe position - above and below 5 Ordinal numbers	**Summer** 1 Language of position 2 Describe movement 3 Describe turns 4 Describe movement and turns 5 Shape patterns with turns
Progression – Statistics	**Progression – Statistics**	**Progression – Statistics**
		Summer 1 Make tally charts 2 Tables 3 Block diagrams 4 Draw pictograms (1-1) 5 Interpret pictograms (1-1) 6 Draw pictograms (2, 5 and 10) 7 Interpret pictograms (2, 5 and 10)

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Mathematics: EYFS Development Matters and KS1 National Curriculum Progression Grid

Reception	Year 1	Year 2

Year R Vital Vocabulary

Number knowledge and place value:
- number
- zero, one, two, three … to twenty and beyond
- teens numbers, eleven, twelve … twenty
- none
- how many …?
- count, count (up) to, count on (from, to), count back (from, to)
- count in ones, twos, fives, tens
- is the same as…, is equal to…
- more, less
- odd, even
- few
- pattern
- pair
- ones, tens
- the same number as, as many as
- more, larger, bigger, greater, most, biggest, largest, greatest
- fewer, smaller, less, fewest, smallest, least
- one more, ten more
- one less, ten less
- compare
- order
- size
- first, second, third… twentieth
- last, last but one
- before, after, next, between

Estimating:
- guess
- how many …?
- estimate
- nearly
- close to
- about the same as
- just over, just under
- too many, too few
- enough, not enough

Addition and subtraction:
- add, more, and
- make, sum, total

Year 1 Vital Vocabulary

INCLUSIVE OF THE VOCABULARY INTRODUCED IN EYFS

Number knowledge and place value:
- number
- zero, one, two, three to twenty, and beyond
- count (on/up/to/from/down)
- more, less, many, few, fewer, least, fewest, smallest, greater, lesser
- equal to, the same as
- odd, even
- pair
- ones, tens
- ten more/less
- digit
- numeral
- figure(s)
- compare
- (in) order/a different order
- value
- between, halfway between
- above, below

Addition and subtraction:
- number bonds, number line
- add, more, plus, make,
- sum, total, altogether
- inverse
- double, near double
- half, halve
- equals, is the same as
- difference between
- how many more to make..?, how many more is…than..?, how much more is..?
- subtract, take away, minus how many fewer is…than..?, how much less is…

Multiplication and division:
- odd, even
- count in twos, fives, tens (forwards from/backwards from)
- how many times?
- lots of, groups of
- once, twice,
- three times, five times

Year 2 Vital Vocabulary

INCLUSIVE OF THE VOCABULARY INTRODUCED IN YEAR 1

Number knowledge and place value:
- numbers to one hundred
- hundreds
- partition, recombine
- hundred more/less
- one-digit number, two-digit number, three-digit number

Multiplication and division:
- count in threes, fours (forwards from/backwards from)

Fractions:
- three quarters, one third, a third
- equivalence, equivalent

Geometry (shapes, position and direction)
- symmetrical, line of symmetry
- mirror line, reflection
- pattern, repeating pattern
- rotation, clockwise, anticlockwise
- straight line
- ninety degree turn, right angle

Time:
- quarter past, quarter to
- hour scale, minute scale
- duration

Measures:
- centimetres (cm) kilometres (km),
- grams (g) kilograms (kg)
- millilitres (ml) litres (l)
- temperature, degrees celcius (○ c)

Money:
- note
- value, equivalent value, same amount

Statistics:
- count, tally, sort
- vote
- graph, block graph, pictogram,
- represent
- group, set, list, table, label, title
- most popular, most common,
- least popular, least common

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Reception	Year 1	Year 2
▪ altogether	▪ multiple of, times, multiply, multiply by	**General/Problem Solving/Reasoning Vocabulary**
▪ double	▪ repeated addition	▪ predict
▪ one more, two more … ten more	▪ array, row, column	▪ describe the pattern, describe the rule
▪ how many more to make …?	▪ double, halve, share, share equally	▪ find, find all, find different
▪ how many more is … than …?	▪ group in pairs, threes, etc.	▪ investigate
▪ how much more is …?	▪ equal groups of	
▪ take away	▪ divide, divided by, left, left over	
▪ how many are left/left over?	**Fractions:**	
▪ how many have gone?	▪ whole	
▪ one less, two less, ten less …	▪ equal parts,	
▪ how many fewer is … than …?	▪ four equal parts	
▪ how much less is …?	▪ one half, two halves	
▪ difference between	▪ a quarter, two quarters	
Multiplication and division:	**Geometry (shapes, position and direction)**	
▪ Sharing, shared between	▪ 2D shape, 3D shape	
▪ Doubling, double	▪ group, sort	
▪ Halving, half of	▪ cube, cuboid, pyramid, sphere, cone, cylinder,	
▪ number patterns	▪ circle, triangle, square	
Fractions	▪ flat, curved, straight, round	
▪ parts of a whole	▪ hollow, solid	
▪ half	▪ vertex, vertices (point, pointed)	
Geometry:	▪ face, side, edge	
Properties of shape	▪ make, build, draw	
▪ shape, pattern	▪ position, direction	
▪ flat, curved, straight, round, hollow, solid	▪ over, under, underneath, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, before, after, beside, next to, opposite, apart, between, middle,	
▪ sort, make, build, draw, match	▪ edge, centre	
▪ size, bigger, larger, smaller	▪ journey	
▪ symmetrical, pattern, repeating pattern	▪ left, right, up, down, forwards, backwards, sideways, across, close, far, near, along, through, to, from, towards, away from	
2-D shape	▪ turn, whole turn, half turn	
▪ Vertex, vertices, side, sides	**Time:**	
▪ rectangle (including square), circle, triangle	▪ time	
3-D shape	▪ days of the week: Monday, Tuesday….	
▪ face, edge, vertex, vertices	▪ Seasons: spring, summer, autumn, winter	
▪ cube, pyramid, sphere, cone	▪ day, week, month, year, weekend	
Position and direction	▪ morning, afternoon, evening, night, midnight, bedtime, dinnertime,	
▪ position		
▪ over, under, above, below		
▪ top, bottom, side		
▪ on, in, outside, inside, around, in front, behind		
▪ front, back, beside, next to		
▪ opposite		

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Reception	Year 1	Year 2
- apart, between - middle, edge - corner, - direction - left, right, up, down, forwards, backwards, sideways **Time:** - time - days of the week, Monday, Tuesday … - day, week - birthday, holiday - morning, afternoon, evening, night - bedtime, dinner time, playtime - today, yesterday, tomorrow - before, after - next, last - now, soon, early, late - quick, quicker, quickest, quickly - slow, slower, slowest, slowly - old, older, oldest - new, newer, newest - takes longer, takes less time - hour, o'clock - clock, watch, hands **Measures** - measure - size - compare - guess, estimate - enough, not enough - too much, too little - too many, too few - nearly, close to, about the same as - just over, just under - long, short, tall - high, low - wide, narrow - thick, thin - longer, shorter, taller, higher … - longest, shortest, tallest, highest … - far, near, close - weigh, weighs, balances	- playtime - today, yesterday, tomorrow - before, after, next, last, now, soon, early, late, quick, quicker, quickest, quickly , fast, faster, fastest, slow, slower, slowest, slowly - old, older, oldest, new, newer, newest - takes longer, takes less time - hour, o'clock, half past, clock, watch, hands - how long ago?, how long will it be to…?, how long will it take to…?, how often? - once, twice - first, second, third, etc. - estimate, close to, about the same as, just over, just under **Measures:** - length, width, height, depth - long, longer, longest, short, shorter shortest, tall, taller, tallest, high, higher, highest - low, wide, narrow, deep, shallow, thick, thin - far, near, close - metre, ruler, metre stick - full, half full, empty - holds - container - weigh, weighs, balances - heavy, heavier, heaviest, light, lighter, lightest - scales **Money:** - money, coin, penny, pence, pound - price, cost, buy, sell, spend, spent, pay, change, costs more, costs less, cheaper, costs the same as - how much?, how many? - Total **General/Problem Solving/Reasoning Vocabulary** - tell me, describe, talk about, explain, show me - count, work out, answer, check - same number(s)/different number(s)/missing number(s) - odd one out, what's the same? what's different?, maths story, all possibilities - number facts	

Reception	Year 1	Year 2
▪ heavy, light ▪ heavier than, lighter than ▪ heaviest, lightest ▪ scales ▪ full ▪ empty ▪ half full ▪ holds ▪ container **Money:** ▪ money ▪ coin ▪ penny, pence, pound ▪ price, cost ▪ buy, sell ▪ spend, spent ▪ pay **General/Problem Solving/Reasoning Vocabulary:** ▪ pattern ▪ puzzle ▪ what could we try next? ▪ how did you work it out? ▪ recognise ▪ describe ▪ draw ▪ compare ▪ sort		