



Big Maths

Year 3

Termly Learning Objectives



Counting



Learn Its



It's Nothing New



Calculation



Shape



Amounts



Fractions



Explaining Data

Basic Skills

Progress Drive	Step	Statement	✓
Reading Numbers	6	I can read 3d numbers	
Place Value	2	I can partition a 3d number, then a 4d number	
Mastery of Numbers	3	I can understand 2d numbers	
Counting Multiples	4	I can count in 3s	
Count Along in 4 Ways	20s, 200s, 2000s, 1/4s	20s 200s 2000s 1/4s	
Counting Along Scales	1	I can count along when the numbers are written in	
Learn Its	10	3x table	
Swapping the Units	1	Swap 'the thing' to another object	
INN: Addition and Subtraction	3	I can add thousands	
Doubling with Pim (without crossing 10)	3	I can double 2d numbers	
Doubling with Pim (with crossing 10)	3	I can double 2d numbers	
Halving with Pim	3	I know half of 300, 500, 700, 900	
INN: Number Bonds to 10	3	I can find the missing piece to 100	
Multiplying by 10	1	I can multiply whole numbers by 10	
Dividing by 10	1	I can divide multiples of 10 by 10	
Coin Multiplication	2	I can complete a 1, 2, 5, 10 card	
INN: Finding Multiples	1	I can find Mully using my tables	
INN: Fact Families	4	I know the Fact Families for 1d x 1d facts	
Addition	25	I can solve any 2d + 2d	
Subtraction	28	I can take any 2d number from 100	
Multiplication	9	I can solve 1d x 1d (2, 3, 4, 5x tables)	
Division	17	I can use a Tables Fact to find a division fact (with remainders) (2, 3, 4, 5x tables)	

Basic Skills (Continued)

Progress Drive	Step	Statement	✓
Addition - Column Methods	2	I can solve any $2d + 2d$	
Subtraction - Column Methods	2	I can solve any $2d - 2d$	

Wider Maths

Progress Drive	Step	Statement	✓
Explore and Draw	15	I can recognise horizontal and vertical lines	
	16	I can recognise parallel lines	
	17	I can recognise perpendicular lines	
2D Shapes	17	I can compare and sort many 2D shapes	
3D Shapes	17	I can recognise the 3D shapes I know in context	
Position and Direction	13	I can use the four compass points to describe direction	
Amounts of Distance	10	I can choose to count in metres or centimetres by seeing what makes most sense	
Amounts of Mass	10	I can choose to measure in kilograms or grams by seeing what makes most sense	
Amounts of Money	12	I can use all of my CLIC steps, so far, in the context of money (involving either pounds or pence)	
Amounts of Space	10	I can choose to measure in litres or millilitres by seeing what makes most sense	
Amounts of Temperature	7	I know that we measure temperature in degrees Celsius	
Amounts of Time	19	I can place different periods of time in order	
Amounts of Time: Telling the Time	8	I can tell the time!	
Amounts of Turn	7	I can recognise half turns, three quarter turns and whole turns as amounts of right angles	
	8	I can tell if an angle is greater than or less than a right angle	
	9	I can move two arms to replicate an angle in a polygon	
	10	I can spot right angles in shapes	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Fractions of a Whole	9	I can tell you fractions equal to 1, e.g. two halves, three thirds, four quarters, etc.	
	10	I can always count up how many equal parts altogether	
	11	I can always count up how many equal parts are shaded	
	12	I can find any simple fraction of any simple shape	
	13	I can show any simple fraction	
Fractions of a Set	8	I can find fractions of amounts by sharing and then counting (2 or more parts)	
Fractions: Counting	6	I can count in thirds	
	7	I can count in tenths	
Fractions: Learn Its	4	I know all of my x2, x5 and x10 tables as fractions Learn Its	
Fractions: It's Nothing New	4	I can add and subtract fractions with the same denominator (within 1)	
Fractions: Calculation	1	I can see fractions as 'just another number'	
Ratio	2	I can use fixed number relationships in my learning	
Diagrams and Tables	16	I can explain pictograms with half pictures	
Bar Charts	3	I can read a bar chart	
Line Graphs	2	I can track my own Big Maths Beat That! scores with a line graph	
Pattern Spotting	9	I can spot and extend more challenging patterns of shapes	
Algebra	3	I understand that = means the same amount as	
Prove It!	2	I can Prove It! - 2	

Basic Skills

Progress Drive	Step	Statement	✓
Reading Numbers	6	I can read 3d numbers	
Place Value	2	I can partition a 3d number, then a 4d number	
Mastery of Numbers	3	I can understand 2d numbers	
Counting Multiples	5	I can count in 4s	
Count Along in 4 Ways	1000s	1000s	
Counting Along Scales	2	I can count along even when the numbers aren't written in	
Learn Its	11	4x table	
Swapping the Units	1	Swap 'the thing' to another object	
INN: Addition and Subtraction	3	I can add thousands	
Doubling with Pim (without crossing 10)	4	I can double 3d multiples of 100	
Doubling with Pim (with crossing 10)	4	I can double 3d multiples of 100	
Halving with Pim	3	I know half of 300, 500, 700, 900	
INN: Number Bonds to 10	3	I can find the missing piece to 100	
Multiplying by 10	1	I can multiply whole numbers by 10	
Dividing by 10	1	I can divide multiples of 10 by 10	
INN: Multiplication	1	I can multiply multiples of 10	
	2	I can write Smile Multiplication tables	
Coin Multiplication	3	I can complete a full Coin Card	
INN: Finding Multiples	2	I can find Mully using 10 lots and a Tables Fact	
INN: Fact Families	4	I know the Fact Families for 1d x 1d facts	
Addition	26	I can solve $3d + 2d$	
	27	I can solve any $3d + 2d$	
Subtraction	28	I can take any 2d number from 100	
Multiplication	10	I can do Smile Multiplication (2, 3, 4, 5x tables)	

Basic Skills (Continued)

Progress Drive	Step	Statement	✓
Division	17	I can use a Tables Fact to find a division fact (with remainders) (2, 3, 4, 5x tables)	
Addition - Column Methods	3	I can solve a $3d + 2d$	
Subtraction - Column Methods	3	I can solve any $2d - 2d$	
	4	I can solve a $3d - 2d$	

Wider Maths

Progress Drive	Step	Statement	✓
Explore and Draw	18	I can recognise lines of symmetry in a variety of shapes	
	19	I can use my knowledge of symmetry to recognise non-symmetrical shapes	
2D Shapes	18	I can identify regular and irregular polygons	
	19	I can identify congruent shapes	
3D Shapes	17	I can recognise the 3D shapes I know in context	
Position and Direction	14	I can use simple grid references	
Amounts of Distance	11	I can measure distance accurately using metres and centimetres	
	12	I know my metre Learn It $1\text{m}=100\text{cm}$	
	13	I know my millimetre Learn It $1\text{cm}=10\text{mm}$	
Amounts of Mass	11	I can measure mass accurately using kilograms and grams	
	12	I know my mass Learn It $1\text{kg}=1000\text{g}$	
Amounts of Money	12	I can use all of my CLIC steps, so far, in the context of money (involving either pounds or pence)	
Amounts of Space	11	I can measure capacity accurately using litres and millilitres	
	12	I know my capacity Learn It $1\text{L}=1000\text{ml}$	
Amounts of Temperature	7	I know that we measure temperature in degrees Celsius	
Amounts of Time	20	I can time and record simple events	
	21	I can time, record and compare simple events	
Amounts of Time: Telling the Time	8	I can tell the time!	
Amounts of Turn	11	I can recognise acute angles	
	12	I can recognise obtuse angles	
Fractions of a Whole	13	I can show any simple fraction	
Fractions of a Set	8	I can find fractions of amounts by sharing and then counting (2 or more parts)	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Fractions: Counting	8	I can record my tenths with decimals too	
	9	I can compare and order fractions with the same denominator	
Fractions: Learn Its	4	I know all of my x2, x5 and x10 tables as fractions Learn Its	
Fractions: It's Nothing New	4	I can add and subtract fractions with the same denominator (within 1)	
Fractions: Calculation	1	I can see fractions as 'just another number'	
Ratio	2	I can use fixed number relationships in my learning	
Diagrams and Tables	17	I can explain pictograms with quarter pictures	
	18	I can use a variety of Venn diagrams	
Bar Charts	4	I can draw a 1:1 scale bar chart	
	5	I can explain a 1:2 scale bar chart	
	6	I can draw a 1:2 scale bar chart	
Line Graphs	2	I can track my own Big Maths Beat That! scores with a line graph	
Pattern Spotting	9	I can spot and extend more challenging patterns of shapes	
Algebra	3	I understand that = means the same amount as	
Prove It!	2	I can Prove It! - 2	

Basic Skills

Progress Drive	Step	Statement	✓
Reading Numbers	6	I can read 3d numbers	
Place Value	2	I can partition a 3d number, then a 4d number	
	3	I can partition a 1dp number	
Mastery of Numbers	4	I can understand 3d numbers	
Counting Multiples	6	I can count in 8s	
Count Along in 4 Ways	1/10s, 0.1s	1/10s 0.1s	
Counting Along Scales	2	I can count along even when the numbers aren't written in	
Learn Its	12	8x table	
Swapping the Units	2	Swap 'the thing' to an amount	
	3	Swap 'the thing' to a unit of measure	
INN: Addition and Subtraction	3	I can add thousands	
Doubling with Pim (without crossing 10)	5	I can double 3d numbers	
Doubling with Pim (with crossing 10)	5	I can double 3d numbers	
Halving with Pim	3	I know half of 300, 500, 700, 900	
INN: Number Bonds to 10	3	I can find the missing piece to 100	
Multiplying by 10	1	I can multiply whole numbers by 10	
Dividing by 10	1	I can divide multiples of 10 by 10	
INN: Multiplication	3	I can write Smile Multiplication Fact Families	
Coin Multiplication	3	I can complete a full Coin Card	
INN: Finding Multiples	2	I can find Mully using 10 lots and a Tables Fact	
INN: Fact Families	5	I know Smile Multiplication Fact Families	
Addition	28	I can solve 3d + 3d	
Subtraction	29	I can subtract with 3 digit numbers	

Basic Skills (Continued)

Progress Drive	Step	Statement	✓
Multiplication	11	I can solve $1d \times 2d$ (2, 3, 4, 5x tables)	
Division	18	I can combine 2 or more Tables Facts to solve division (2, 3, 4, 5x tables)	
	19	I can combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables)	
Addition - Column Methods	4	I can solve any $3d + 2d$	
	5	I can solve a $3d + 3d$	
	6	I can solve any $3d + 3d$	
Subtraction - Column Methods	5	I can solve any $3d - 3d$	
Multiplication - Column Methods	1	I can solve a $2d \times 1d$	
Division - Column Methods	1	I can solve a $2d \div 1d$ (using x2, 3, 4, 5) with no remainders inside the question	

Wider Maths

Progress Drive	Step	Statement	✓
Explore and Draw	19	I can use my knowledge of symmetry to recognise non-symmetrical shapes	
2D Shapes	20	I can sort and describe 2D shapes using angles	
3D Shapes	18	I can describe 3D shapes using measurements and types of angles	
	19	I can make 3D shapes	
Position and Direction	14	I can use simple grid references	
Amounts of Distance	14	I can calculate in the context of measuring distance	
	15	I can change an amount of distance to make it 3, 4 or 5 times bigger	
	16	I know what the perimeter is	
	17	I can count to find a perimeter	
	18	I can measure to find a perimeter	
Amounts of Mass	13	I can calculate in the context of measuring mass	
	14	I can change an amount of mass to make it 3, 4 or 5 times bigger	
Amounts of Money	13	I can use all of my CLIC steps, so far, in the context of money (involving different units, e.g. 125p add £2)	
	14	I can record money spent and money saved	
Amounts of Space	13	I can calculate in the context of measuring capacity	
	14	I can change an amount of water to make it 3, 4 or 5 times bigger	
Amounts of Temperature	7	I know that we measure temperature in degrees Celsius	
Amounts of Time	22	I know how many days in each month, year and leap year	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Amounts of Time: Telling the Time	9	I can say how long until o'clock	
	10	I can read quarter past and quarter to on a digital clock	
	11	I can tell the time to the nearest minute	
	12	I can tell the time with Roman numerals	
	13	I understand am and pm	
	14	I can read a 24 hour clock	
	15	I can convert time from analogue to 24 hour clock	
Amounts of Turn	13	I can use acute and obtuse to accurately describe properties of shapes	
	14	I know that angles are used to sort shapes	
Fractions of a Whole	14	I know any fraction equal to 1	
	15	I can use equivalence to show any simple fraction	
Fractions of a Set	9	I can find fractions of amounts using my tables (1 part)	
	10	I can find fractions of amounts using my tables (2 or more parts)	
Fractions: Counting	10	I can place the fractions I know on a number line	
	11	I can compare and order fractions with different denominators	
Fractions: Learn Its	5	I know all of my x3, x4 and x8 tables as fractions Learn Its	
Fractions: It's Nothing New	4	I can add and subtract fractions with the same denominator (within 1)	
Fractions: Calculation	2	I can solve addition calculations with fractions	
	3	I can solve subtraction calculations with fractions	
Ratio	3	I can increase measures by a given proportion	
Diagrams and Tables	19	I can explain a table with several rows and columns	
	20	I can read timetables	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Bar Charts	7	I can find how many in a subset	
	8	I can find how many altogether	
	9	I can compare subsets and explain what this tells us	
Line Graphs	2	I can track my own Big Maths Beat That! scores with a line graph	
Pattern Spotting	9	I can spot and extend more challenging patterns of shapes	
Algebra	4	I can use a two-step function machine	
Prove It!	3	I can Prove It! - 3	