



Big Maths

Year 4

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	4	I can partition a 2dp number	
Mastery of Numbers	5	I can understand 4d numbers	
Counting Multiples	7	I can count in 6s	
	8	I can count in 7s	
	9	I can count in 9s	
Count Along in 4 Ways	25s, 250s, 2500s	25s 250s 2500s	
Counting Along Scales	3	I can still count along for all of Count Fourways' challenges	
Learn Its	13	The 6 Fact Challenge!	
INN: Addition and Subtraction	3	I can add thousands	
Halving with Pim	3	I know half of 300, 500, 700, 900	
INN: Number Bonds to 10	4	I can find the missing piece to 1000	
Multiplying by 10	2	I can multiply whole numbers by 100	
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	
Addition	28	I can solve 3d + 3d	
Subtraction	29	I can subtract with 3 digit numbers	
Multiplication	12	I can solve any 1d x 1d	
	13	I can do any Smile Multiplication	
Division	19	I can combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables)	

Basic Skills (Continued)

Progress Drive	Step	Statement	✓
Addition - Column Methods	6	I can solve any $3d + 3d$	
Subtraction - Column Methods	6	I can solve any $4d - 2d$ or $3d$	
Multiplication - Column Methods	1	I can solve a $2d \times 1d$	
Division - Column Methods	2	I can solve $2d \div 1d$ (using x2, 3, 4, 5) with no remainders in the answer	

Wider Maths

Progress Drive	Step	Statement	✓
Explore and Draw	20	I can find symmetry when shapes are in different orientations	
2D Shapes	21	I know 'The Triangle Family'	
3D Shapes	19	I can make 3D shapes	
Position and Direction	14	I can use simple grid references	
Amounts of Distance	19	I can calculate to find the perimeter	
	20	I can find the perimeter in a variety of 2D shapes	
	21	I know my kilometre Learn It $1\text{km} = 1000\text{m}$	
	22	I can convert kilometres to metres	
Amounts of Mass	15	I can measure and record mass to the nearest 5g	
	16	I can convert kilograms to grams	
Amounts of Money	15	I can use decimal notation for money	
Amounts of Space	15	I understand that the area is the amount of space inside a 2D shape and I can count squares to find it	
	16	I can find the area of rectangles by counting squares	
	17	I can compare the areas of different shapes by counting squares	
	18	I can compare the areas of different shapes by accurately counting squares and part squares	
Amounts of Temperature	7	I know that we measure temperature in degrees Celsius	
Amounts of Time	23	I can calculate the number of days	
	24	I can convert periods of time	
Amounts of Time: Telling the Time	16	I can convert time from 24 hour clock to analogue	
Amounts of Turn	15	I can compare, order and sort angles	
Fractions of a Whole	16	I can use equivalence to find any simple fraction	
Fractions of a Set	10	I can find fractions of amounts using my tables (2 or more parts)	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Fractions: Counting	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	5	I can add and subtract fractions with the same denominator (beyond 1)	
Fractions: Calculation	4	I can use my calculation skills to add/subtract fractions that make a whole number	
Ratio	3	I can increase measures by a given proportion	
Diagrams and Tables	20	I can read timetables	
Bar Charts	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	

Basic Skills

Progress Drive	Step	Statement	✓
Reading Numbers	6	I can read 3d numbers	
Place Value	4	I can partition a 2dp number	
Mastery of Numbers	6	I can understand 1dp numbers	
Count Along in 4 Ways	0.2s, 0.5s, 0.25s	0.2s 0.5s 0.25s	
Counting Along Scales	4	I can even count along when there are no lines	
Learn Its	14	11x table	
INN: Addition and Subtraction	4	I can add tenths	
Halving with Pim	4	I know half of 3, 5, 7, 9 as decimals	
INN: Number Bonds to 10	4	I can find the missing piece to 1000	
Multiplying by 10	2	I can multiply whole numbers by 100	
Dividing by 10	2	I can divide whole numbers by 10 or 100 giving decimal answers	
INN: Multiplication	3	I can write Smile Multiplication Fact Families	
Coin Multiplication	4	I know when to add 2 multiples together	
INN: Finding Multiples	2	I can find Mully using 10 lots and a Tables Fact	
Addition	29	I can solve any $3d + 3d$	
Subtraction	29	I can subtract with 3 digit numbers	
Multiplication	14	I can solve any $1d \times 2d$	
Division	19	I can combine 2 or more Tables Facts to solve division (with remainders) (2, 3, 4, 5x tables)	
Addition - Column Methods	7	I can solve any $4d + 2d / 3d$	
Subtraction - Column Methods	6	I can solve any $4d - 2d$ or $3d$	
Multiplication - Column Methods	2	I can solve any $2d \times 1d$	
Division - Column Methods	2	I can solve $2d \div 1d$ (using x2, 3, 4, 5) with no remainders in the answer	

Wider Maths

Progress Drive	Step	Statement	✓
Explore and Draw	20	I can find symmetry when shapes are in different orientations	
2D Shapes	22	I know 'The Quadrilateral Family'	
3D Shapes	19	I can make 3D shapes	
Position and Direction	15	I can provide coordinates for a given point	
	16	I can locate a point using given coordinates	
	17	I can use x and y coordinates to find points	
	18	I can explain the difference between grid references and coordinates	
	19	I can create my own first quadrant	
	20	I can create my own first quadrant and plot given points	
Amounts of Distance	22	I can convert kilometres to metres	
Amounts of Mass	16	I can convert kilograms to grams	
Amounts of Money	15	I can use decimal notation for money	
Amounts of Space	18	I can compare the areas of different shapes by accurately counting squares and part squares	
Amounts of Temperature	8	I can use a range of thermometers to measure the temperature	
	9	I can read negative temperatures	
	10	I can find negative values for temperatures by counting	
	11	I can understand and use degrees Celsius	
Amounts of Time	24	I can convert periods of time	
Amounts of Time: Telling the Time	16	I can convert time from 24 hour clock to analogue	
Amounts of Turn	15	I can compare, order and sort angles	
Fractions of a Whole	16	I can use equivalence to find any simple fraction	
Fractions of a Set	10	I can find fractions of amounts using my tables (2 or more parts)	
Fractions: Counting	12	I can round numbers with 1dp	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Fractions: Learn Its	6	I know all of my tables as fractions Learn Its	
Fractions: It's Nothing New	6	I can multiply unit fractions (within 1)	
Fractions: Calculation	5	I can simplify fractions using my tables	
Ratio	3	I can increase measures by a given proportion	
Diagrams and Tables	21	I can calculate from timetables	
	22	I can use two variables to read timetables	
	23	I can use two variables to read timetables and then calculate	
Bar Charts	10	I can find how many more (or fewer) than a given value shown on the horizontal axis (with continuous data)	
	11	I can draw a bar chart with continuous data	
Line Graphs	3	I can explain a range of simple line graphs	
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	

Basic Skills

Progress Drive	Step	Statement	✓
Reading Numbers	6	I can read 3d numbers	
Place Value	4	I can partition a 2dp number	
Mastery of Numbers	7	I can understand 2dp numbers	
Count Along in 4 Ways	1/5s	1/5s	
Counting Along Scales	4	I can even count along when there are no lines	
Learn Its	15	12x table	
INN: Addition and Subtraction	4	I can add tenths	
Halving with Pim	5	I can halve any 2d number	
	6	I can halve any 3d number	
INN: Number Bonds to 10	4	I can find the missing piece to 1000	
Multiplying by 10	2	I can multiply whole numbers by 100	
Dividing by 10	2	I can divide whole numbers by 10 or 100 giving decimal answers	
INN: Multiplication	3	I can write Smile Multiplication Fact Families	
Coin Multiplication	4	I know when to add 2 multiples together	
INN: Finding Multiples	3	I can find Mully using Smile Multiplication	
Multiple-Factor-Prime	1	I can find multiples	
	2	I can find factors	
Addition	30	I can solve $3d + 3d$ as money	
	31	I can solve any $3d + 3d$ as money	
Subtraction	30	I can solve $3d - 2d$	
Multiplication	14	I can solve any $1d \times 2d$	

Basic Skills (Continued)

Progress Drive	Step	Statement	✓
Division	20	I can use a Tables Fact to find a division fact (x6, 7, 8, 9)	
	21	I can use a Tables Fact to find a division fact (with remainders) (x6, 7, 8, 9)	
	22	I can combine 2 or more Tables Facts to solve division (x6, 7, 8, 9)	
	23	I can combine 2 or more Tables Facts to solve division (with remainders) (x6, 7, 8, 9)	
Addition - Column Methods	8	I can solve any $4d + 4d$	
Subtraction - Column Methods	7	I can solve any $4d - 4d$	
Multiplication - Column Methods	3	I can solve any $3d \times 1d$	
Division - Column Methods	3	I can solve $2d \div 1d$ (using any table) with no remainders in the answer	
	4	I can solve a $3d \div 1d$ (using any table) with no remainders in the answer	
	5	I can solve a $4d \div 1d$ (using any table) with no remainders in the answer	

Wider Maths

Progress Drive	Step	Statement	✓
Explore and Draw	21	I can recognise a line of symmetry even when it does not dissect the shape	
	22	I can draw lines to the nearest millimetre	
2D Shapes	23	I can sort polygons by side number and identify specific triangles and quadrilaterals	
3D Shapes	19	I can make 3D shapes	
Position and Direction	21	I can draw a simple 2D shape from given coordinates	
	22	I can describe the pattern of coordinates	
	23	I can move a point horizontally by a specified distance	
	24	I can move a point vertically by a specified distance	
	25	I can move a point horizontally and vertically	
Amounts of Distance	23	I can measure and record distances to the nearest millimetre	
	24	I can express perimeter through algebra	
Amounts of Mass	16	I can convert kilograms to grams	
Amounts of Money	15	I can use decimal notation for money	
Amounts of Space	19	I can measure and record capacities to the nearest 100ml, and convert to litres	
	20	I can convert litres to millilitres	
Amounts of Temperature	11	I can understand and use degrees Celsius	
Amounts of Time	25	I can calculate time gaps within an hour (5 min)	
	26	I can calculate time gaps across an hour (5 min)	
	27	I can calculate time gaps across several hours (5 min)	
Amounts of Time: Telling the Time	17	I can read Roman numerals to 100	
Amounts of Turn	16	I can use my angle knowledge to help sort polygons (triangles, quadrilaterals and regular/irregular)	
Fractions of a Whole	17	I can show a variety of equivalent fractions	

Wider Maths (Continued)

Progress Drive	Step	Statement	✓
Fractions of a Set	11	I can reword my multiplication and division success as fractions (in context)	
	12	I can use all tables Learn Its to find fractions of amounts	
Fractions: Counting	13	I can count in fifths	
	14	I can count in fractions of any denominator	
	15	I can count in hundredths	
	16	I can record my hundredths with decimals too	
Fractions: Learn Its	7	I know $\frac{1}{2}=0.5$ $\frac{1}{10}=0.1$ $\frac{1}{4}=0.25$ $\frac{3}{4}=0.75$ $\frac{1}{100}=0.01$	
Fractions: It's Nothing New	7	I can multiply unit fractions (beyond 1)	
Fractions: Calculation	5	I can simplify fractions using my tables	
Ratio	3	I can increase measures by a given proportion	
Diagrams and Tables	24	I can explain data from a wide variety of representations	
Bar Charts	11	I can draw a bar chart with continuous data	
Line Graphs	3	I can explain a range of simple line graphs	
Pattern Spotting	9	I can spot and extend more challenging patterns of shapes	
Algebra	5	I can describe the function and use a given output to find an input	
	6	I can describe algebraically how to always find the perimeter of a rectangle	
	7	I can choose my own symbol to represent an unknown number	
	8	I can use multi step function machines	
Prove It!	4	I can Prove It! - 4	