

Year 6 Maths Ladders



Year 6

Ladder: 1

Week: 1-2 Autumn

Step	LI: to develop our understanding of place value		Assessment Circle	Date completed
1	Recap Y5 I can represent numbers to 10,000	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
2	Recap Y5 I can round to the nearest 10,100 and 1000	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
3	Recap Y5 I can represent numbers to 100,000	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
4	Recap Y5 I can use numbers to one million	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
5	I can use numbers to ten million	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
6	I can compare and order numbers to ten million	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
7	I can round up to and within ten million	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	
8	I can count forwards and backwards through zero	1. Fluency Questions 2. Reasoning 3. Problem solving	EXP EXS GDS EXP EXS GDS EXP EXS GDS	

Year 6 Maths Ladders

Ladder: 2

Week: 3-4 Autumn



Step	LI: to develop our understanding of the four operations	Date completed
1	I can add and subtract whole numbers	
2	I can multiply up to a 4 digit number by 2-digit numbers	
3	I can use short division	
4	I can use division using factors	
5	I can use long division to divide 2-digits numbers and 3-digit numbers	
6	I can use long division 3 digit and 4-digit numbers	
7	I can use long division to divide 3-digit numbers involving remainders	
8	I can use long division to divide 4-digit numbers involving remainders	
9		
10		

Year 6 Maths Ladders

Ladder: 3

Week: 5-6 Autumn



Step	LI: to develop our understanding of the four operations	Date completed
1	I can find common factors	
2	I can find common multiples	
3	I can find prime numbers to 100	
4	I can find square and cube numbers	
5	I understand the order of operations	
6	I can use mental calculations and estimation	
7	I can reason from known facts	
8		
9		
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Year 6 Maths Ladders

Ladder: 4

Week: 7-8 Autumn



Step	LI: to develop our understanding of fractions	Date completed
1	I can simplify fractions	
2	I can place fractions on a number line	
3	I can compare and order fractions based on the denominator	
4	I can compare and order fractions based on the numerator	
5	I can add and subtract fractions within 1 with denominators that are multiples	
6	I can add and subtract fractions where the denominators aren't multiples	
7	I can add mixed numbers	
8	I can subtract mixed numbers	
9		
10		

Year 6 Maths Ladders

Ladder: 5

Week: 9-10 Autumn



Step	LI: to develop our understanding of fractions	Date completed
1	I can add and subtract fractions and mixed numbers	
2	I can multiply fractions by integers	
3	I can multiply fractions by fractions	
4	I can divide fractions by integers where the numerator is a multiple of the integer	
5	I can multiply fractions by integers where the numerator isn't directly divisible by the integer	
6	I can use the four rules with fractions	
7	I can find fractions of an amount	
8	I can find the whole	
9		
10		

Year 6 Maths Ladders

Ladder: 6

Week: 11 Autumn



Step	LI: to develop our understanding of geometry	Date completed
1	I can read and plot coordinates in the first quadrant	
2	I can read and plot coordinates in all four quadrants	
3	I can translate shapes across all four quadrants	
4	I can reflect shapes in all four quadrants	
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6		
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8		
9		
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Ladder: 1 Spring

Week: 1-2



Step	LI: to develop our understanding of decimals	Date completed
1	I can understand and use numbers with up to 3 decimal places	
2	I can multiply decimals by 10, 100 and 1000	
3	I can divide decimals by 10, 100 and 1000	
4	I can multiply decimals by integers	
5	I can divide decimals by integers	
6	I can use division to solve problems involving decimals.	
7	I can use decimals as fractions	
8	I can convert fractions to decimals by using my knowledge of hundredths	
9	I can covert fractions to decimals by dividing the numerator by the denominator	
10		

Ladder: 2 Spring

Week: 3-4



Step	LI: to develop our understanding of percentages	Date completed
1	I can convert fractions to percentages	
2	I can find equivalent fractions, decimals and percentages	
3	I can order fractions, decimals and percentages	
4	I can find a percentage of an amount through using fractions	
5	I can find percentages of an amount by finding multiples of 10%	
6	I can use percentages to find missing values	
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Ladder: 3 Spring

Week: 5



Step	LI: to develop our understanding of algebra	Date completed
1	I can find a one step rule	
2	I can find a two step rule	
3	I can use an algebraic rule	
4	I can use substitution	
5	I can use formulae	
6	I can form equations	
7	I can solve simple one step equations	
8	I can solve two step equations	
9	I can find pairs of values using substitutions	
10	I can find pairs of values systematically	

Year 6 Maths Ladders

Ladder: 4 Spring

Week: 7



Step	LI: to develop our understanding of converting measurement units	Date completed
1	I can use metric measures	
2	I can convert metric measures	
3	I can calculate with metric measures	
4	I can use miles and kilometres	
5	I can use imperial measures	
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Ladder: 5 Spring

Week: 8-9



Step	LI: to develop our understanding of perimeter, area and volume	Date completed
1	I can find shapes with the same area	
2	I can calculate the area and perimeter of shapes	
3	I can find the area of a triangle by estimating	
4	I can calculate the area of a right-angled triangle	
5	I can calculate the area of any triangle	
6	I can calculate the area of a parallelogram	
7	I can find the volume by counting cubes	
8	I can calculate the volume of a cuboid	
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Year 6 Maths Ladders

Ladder: 6 Spring

Week: 10-11



Step	LI: to develop our understanding of ratio	Date completed
1	I can use the language of ratio	
2	I can use ratio in relation to fractions	
3	I can use the ratio symbol	
4	I can calculate ratio	
5	I can use scale factors	
6	I can calculate scale factors	
7	I can solve ratio and proportion problems	
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Ladder: 1 Summer

Week: 1-2



Step	LI: to develop our understanding of properties of shape	Date completed
1	I can measure with a protractor	
2	I can apply my understanding of angles	
3	I can calculate angles	
4	I understand that vertically opposite angles share a vertex	
5	I understand that the angles in a triangle add up to 180 degrees	
6	I can explore the angles in a right-angled triangle and an isosceles triangle	
7	I can use my understanding of triangles to calculate angles	
8	I can explore the angles in quadrilaterals	
9	I can explore the angles in a polygon	
10	I can draw shapes accurately	
11	I can identify shapes from their nets.	

Year 6 Maths Ladders

Ladder: 2 Summer

Week: 3-5



Step	LI: to develop our understanding of problem solving	Date completed
1	**** KS2 problem of the day and any revision needed	
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Ladder: 3 Summer

Week: 6-7



Step	LI: to develop our understanding of statistics	Date completed
1	I can read and interpret line graphs	
2	I can draw line graphs	
3	I can use line graphs to solve problems	
4	I can illustrate and name parts of circles	
5	I can read and interpret pie charts	
6	I can use pie charts with percentages	
7	I can draw pie charts	
8	I can find the mean	
9		
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Year 6 Maths Ladders

Ladder: 4 Summer



Week: 8-11

Step	LI: to develop our understanding of mathematical investigations	Date completed
1	**** suitable nrich style investigations	
2		
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