

<b>Rowde Step 1 Maths assessment</b>	Expl	Achi	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Number &amp; Place Value</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Recognise the pattern of the counting system.			
End of Unit assessment score;			
<i>Unit 2 Number – Addition and Subtraction</i>			
Compare quantities up to 10 in different contexts			
End of Unit assessment score;			
<i>Unit 3 Number &amp; Place Value</i>			
Compare quantities up to 10 in different contexts			
Subitise (recognise quantities without counting) up to 5.			
End of Unit assessment score;			
<i>Unit 4 Number – Addition and Subtraction</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.			
End of Unit assessment score;			
<i>Unit 5 Time</i>			
Children use everyday language to talk about time to solve problems.			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

0 – 27%	Working Below
28% – 59%	Exploring
60% - 74%	Achieving
75%+	Exceeding

<b>Rowde Step 1 Maths assessment</b>	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 6 Number Bonds</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Automatically recall number bonds up to 5			
End of Unit assessment score;			
<i>Unit 7 Number – Numbers to 10</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Verbally count, recognising the pattern of the counting system.			
Subitise (recognise quantities without counting) up to 5.			
End of Unit assessment score;			
<i>Unit 8 Number – Comparing Numbers</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Subitise (recognise quantities without counting) up to 5.			
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.			
End of Unit assessment score;			
<i>Unit 9 Number - Addition</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Subitise (recognise quantities without counting) up to 5.			
Automatically recall numbers bonds up to 5 and some number bonds to 10, including double facts.			
Compare different contexts, recognising when one quantity is greater than, less than or the same as the other quantity quantities up to 10 in.			
Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.			
End of Unit assessment score;			
<i>Unit 10 Number Bonds</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Subitise (recognise quantities without counting) up to 5.			
Automatically recall numbers bonds up to 5 and some number bonds to 10, including double facts.			
End of Unit assessment score;			
<i>Unit 11 Shape and Space</i>			
Children explore characteristics of everyday objects and shapes and use mathematical language to describe them.			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

- 0 – 27%            Working Below
- 28% – 59%       Exploring
- 60% - 74%       Achieving
- 75%+              Exceeding

<b>Rowde Step 1 Maths assessment</b>	Expl	Achi	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 12 Exploring Patterns</i>			
Children recognise, create and describe patterns.			
End of Unit assessment score;			
<i>Unit 13 Counting On And Back</i>			
Have a deep understanding of number to 10, including the composition of each number.			
Verbally count, recognising the pattern of the counting system.			
End of Unit assessment score;			
<i>Unit 14 Number</i>			
Verbally count beyond 20, recognising the pattern of the counting system.			
End of Unit assessment score;			
<i>Unit 15 Numerical Patterns</i>			
Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.			
End of Unit assessment score;			
<i>Unit 16 Measure</i>			
Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.			
End of Unit assessment score;			

Maths Units Assessments;

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<b>Rowde Step 2 Maths assessment</b>	Expl	Achi	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Number and Place Value</i>			
Identify and represent numbers using concrete objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least			
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			
Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens			
Read and write numbers from 1 to 20 in numerals and words			
Given a number, identify one more and one less			
End of Unit assessment score;			
<i>Unit 2 Addition &amp; Subtraction</i>			
Represent and use number bonds and related subtraction facts within 20			
Read, write and interpret mathematical statements involving addition (+), (-) and (=)			
End of Unit assessment score;			
<i>Unit 3 Addition &amp; Subtraction</i>			
Represent and use number bonds and related subtraction facts within 20			
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \_ - 9$ .			
End of Unit assessment score;			
<i>Unit 4 Addition &amp; Subtraction</i>			
Represent and use number bonds and related subtraction facts within 20			
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \_ - 9$ .			
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs			
Add and subtract one-digit and two-digit numbers to 20, including zero			
End of Unit assessment score;			
<i>Unit 5 Geometry – Properties of Shapes</i>			
Recognise and name common 2-D and 3-D shapes, including: 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]			
Recognise and create repeating patterns with objects and with shapes.			
End of Unit assessment score;			
<i>Unit 6 Number and Place Value</i>			
Count to and across 100, forwards and backwards, beginning with 0 or 1 from any given number			
Recognise the place value of each digit in a two-digit number (tens, ones) (year 2)			
Identify and represent numbers using concrete objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least			
Compare and order numbers from 0 up to 100; use <, > and = signs (year 2)			
End of Unit assessment score;			

**Maths Units Assessments;**

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<b>Rowde Step 2 Maths assessment</b>	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 7 Addition &amp; Subtraction</i>			
Add and subtract 1-digit and 2-digit numbers to 20, including zero			
Represent and use number bonds and related subtraction facts within 20			
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$			
End of Unit assessment score;			
<i>Unit 8 Addition &amp; Subtraction</i>			
Represent and use number bonds and related subtraction facts within 20			
Add and subtract 1-digit and 2-digit numbers to 20, including zero			
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$			
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs			
End of Unit assessment score;			
<i>Unit 9 Number &amp; Place Value</i>			
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number			
(Year 2) recognise the place value of each digit in a 2-digit number (tens, ones)			
Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least			
Given a number, identify one more and one less			
(Year 2) compare and order numbers from 0 up to 100; use $<$ , $>$ and $=$ signs			
Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s			
End of Unit assessment score;			
<i>Unit 10 Measurement</i>			
Compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]			
Measure and begin to record the following: lengths and heights			
End of Unit assessment score;			
<i>Unit 11 Measurement</i>			
Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]			
Measure and begin to record the following: mass/weight			
Measure and begin to record the following: capacity and volume			
Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half full, quarter]			
End of Unit assessment score;			

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Rowde Step 2 Maths assessment	Expl	Achi	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 12 Number – Multiplication &amp; Division</i>			
Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s			
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher			
Non-statutory guidance: Through grouping and sharing small quantities, pupils begin to understand: multiplication and division; doubling numbers and quantities; and finding simple fractions of objects, numbers and quantities			
End of Unit assessment score;			
<i>Unit 13 Number – Multiplication &amp; Division</i>			
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher			
End of Unit assessment score;			
<i>Unit 14 Number - Fractions</i>			
Recognise, find and name a half as one of two equal parts of an object, shape or quantity			
Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity			
End of Unit assessment score;			
<i>Unit 15 Geometry – Position &amp; Direction</i>			
Describe position, direction and movement, including whole, half, quarter and three-quarter turns.			
Non-statutory guidance: Pupils use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside.			
End of Unit assessment score;			
<i>Unit 16 Number and Place Value</i>			
(Year 2) Recognise the place value of each digit in a 2-digit number (tens, ones)			
Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, fewer, most, least			
Represent and use number bonds and related subtraction facts within 20			
(Year 2) Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100			
End of Unit assessment score;			
<i>Unit 17 Measurement – Time &amp; Number Problems</i>			
Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]			
Recognise and use language relating to dates, including days of the week, weeks, months and years			
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.			
Measure and begin to record the following: time (hours, minutes, seconds)			
Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later]			
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$			
End of Unit assessment score;			
<i>Unit 18 Measurement - Money</i>			
Recognise and know the value of different denominations of coins and notes			
End of Unit assessment score;			

**Maths Units Assessments;**

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<b>Rowde Step 3 Maths assessment</b>	Expl	Ach i	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Number and Place Value</i>			
Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s (year 1)			
Identify, represent and estimate numbers using different representations, including the number line			
Recognise the place value of each digit in a 2-digit number (10s, 1s)			
Compare and order numbers from 0 up to 100; use <, > and = signs			
Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward			
End of Unit assessment score;			
<i>Unit 2 Addition &amp; Subtraction</i>			
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100			
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems			
Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot			
Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures			
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s			
Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward			
End of Unit assessment score;			
<i>Unit 3 Addition &amp; Subtraction</i>			
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: two 2-digit numbers			
Solve problems with addition and subtraction: applying their increasing knowledge of mental and written methods			
End of Unit assessment score;			
<i>Unit 4 Measurement</i>			
Recognise and use signs for pounds (£) and pence (p); combine amounts to make a particular value			
Recognise and know the value of different denominations of coins and notes (year 1)			
Find different combinations of coins that equal the same amounts of money			
Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change			
End of Unit assessment score;			
<i>Unit 5 Number – Multiplication &amp; Division</i>			
Solve one-step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher (year 1)			
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs			
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers			
End of Unit assessment score;			

Maths Units Assessments;

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<b>Rowde Step 3 Maths assessment</b>	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 6 Multiplication &amp; Division</i>			
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts			
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs			
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers			
End of Unit assessment score;			
<i>Unit 7 Statistics</i>			
Interpret and construct simple pictograms, tally charts, block diagrams and simple tables			
Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity			
Ask and answer questions about totalling and comparing categorical data			
End of Unit assessment score;			
<i>Unit 8 Measurement</i>			
Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ( $^{\circ}\text{C}$ ); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels			
Compare and order lengths, mass, volume/ capacity and record the results using $>$ , $<$ and $=$			
Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures			
End of Unit assessment score;			
<i>Unit 9 Geometry – Properties of Shape</i>			
Compare and sort common 2D and 3D shapes and everyday objects			
Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line			
Order and arrange combinations of mathematical objects in patterns and sequences			
Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces			
End of Unit assessment score;			
<i>Unit 10 Number - Fractions</i>			
(Year 1) recognise, find and name a half as one of two equal parts of an object, shape or quantity			
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 for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$			
Non-statutory guidelines: Pupils should count in fractions up to 10, starting from any number			
End of Unit assessment score;			

**Maths Units Assessments;**

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<b>Rowde Step 3 Maths assessment</b>	Expl	Achi	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 11 Geometry – Position &amp; Direction</i>			
Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)			
Order and arrange combinations of mathematical objects in patterns and sequences			
End of Unit assessment score;			
<i>Unit 12 Number – Addition &amp; Subtraction</i>			
Use place value and number facts to solve problems			
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems			
Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures			
Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot			
End of Unit assessment score;			
<i>Unit 13 Measurement</i>			
(Year 1) tell the time to the hour and half past the hour and draw the hands on a clock face to show these times			
Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times			
Know the number of minutes in an hour and the number of hours in a day			
Compare and sequence intervals of time			
Know the number of minutes in an hour and the number of hours in a day			
End of Unit assessment score;			
<i>Unit 14 Measurement</i>			
Compare and order lengths, mass, volume/ capacity and record the results using >, < and =			
Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels			
End of Unit assessment score;			

Maths Units Assessments;

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<b>Rowde Step 4 Maths assessment</b>	Expl	Achi	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Number and Place Value</i>			
Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)			
Read and write numbers up to 1,000 in numerals and in words			
Identify, represent and estimate numbers using different representations			
Compare and order numbers up to 1,000			
Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number			
Solve number problems and practical problems involving these ideas			
End of Unit assessment score;			
<i>Unit 2 Addition &amp; Subtraction</i>			
Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds			
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction			
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction			
End of Unit assessment score;			
<i>Unit 3 Addition &amp; Subtraction</i>			
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction			
Add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds			
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction			
Estimate the answer to a calculation and use inverse operations to check answers			
End of Unit assessment score;			
<i>Unit 4 Multiplication &amp; Division</i>			
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods			
Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables			
Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

0 – 27%

Working Below

28% – 59%

Exploring

60% - 74%

Achieving

75%+

Exceeding

<b>Rowde Step 4 Maths assessment</b>	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 5 Multiplication &amp; Division</i>			
Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects			
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods			
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign			
End of Unit assessment score;			
<i>Unit 6 Measurement</i>			
Add and subtract amounts of money to give change, using both £ and p in practical contexts			
End of Unit assessment score;			
<i>Unit 7 Statistics</i>			
Interpret and present data using bar charts, pictograms and tables			
Solve one-step and two-step questions [for example, 'how many more?' and 'how many fewer?'] using information presented in scaled bar charts and pictograms and tables			
End of Unit assessment score;			
<i>Unit 8 Measurement</i>			
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)			
Measure the perimeter of simple 2-d shapes			
End of Unit assessment score;			
<i>Unit 9 Number - Fractions</i>			
Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10			
Compare and order unit fractions, and fractions with the same denominators			
Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators			
Solve problems that involve all of the above			
End of Unit assessment score;			

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<b>Rowde Step 4 Maths assessment</b>	Expl	Achi	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 10 Number - Fractions</i>			
Recognise and show, using diagrams, equivalent fractions with small denominators			
Compare and order unit fractions, and fractions with the same denominators			
Add and subtract fractions with the same denominator within one whole (for example $5/7 + 1/7 = 6/7$ )			
Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators			
Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators			
Solve problems that involve all of the above			
End of Unit assessment score;			
<i>Unit 11 Measurement</i>			
Know the number of seconds in a minute and the number of days in each month, year and leap year			
Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight			
Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks			
Compare durations of events (for example to calculate the time taken by particular events or tasks)			
End of Unit assessment score;			
<i>Unit 12 Geometry – Properties of Shape</i>			
Recognise angles as a property of shape or a description of a turn			
Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle			
Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them			
Identify horizontal and vertical lines and pairs of perpendicular and parallel lines			
End of Unit assessment score;			
<i>Unit 13 Measurement</i>			
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)			
End of Unit assessment score;			
<i>Unit 14 Measurement</i>			
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)			
End of Unit assessment score;			

Maths Units Assessments;

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<b>Rowde Step 5 Maths assessment</b>	Expl	Achi	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Number &amp; Place Value</i>			
Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)			
Round any number to the nearest 10, 100 or 1,000			
Count in multiples of 6, 7, 9, 25 and 1,000			
Identify, represent and estimate numbers using different representations			
Order and compare numbers beyond 1,000			
Read roman numerals to 100 (i to c) and know that over time, the numeral system changed to include the concept of zero and place value			
End of Unit assessment score;			
<i>Unit 2 Number &amp; Place Value</i>			
Find 1,000 more or less than a given number			
Order and compare numbers beyond 1,000			
Identify, represent and estimate numbers using different representations			
Round any number to the nearest 10, 100 or 1,000			
Solve number and practical problems that involve all of the above and with increasingly large positive numbers			
Count in multiples of 6, 7, 9, 25 and 1,000			
Count backwards through zero to include negative numbers			
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero			
End of Unit assessment score;			
<i>Unit 3 Addition &amp; Subtraction</i>			
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate			
Solve number and practical problems that involve all of the above and with increasingly large positive numbers			
Estimate and use inverse operations to check answers to a calculation			
Round any number to the nearest 10, 100 or 1,000			
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why			
End of Unit assessment score;			
<i>Unit 4 Measurement</i>			
Convert between different units of measure [for example, kilometre to metre; hour to minute]			
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres			
End of Unit assessment score;			
<i>Unit 5 Multiplication &amp; Division</i>			
Recall multiplication and division facts for multiplication tables up to 12x12			
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers			
Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.			
End of Unit assessment score;			

### Maths Units Assessments;

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<b>Rowde Step 5 Maths assessment</b>	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 6 Multiplication &amp; Division</i>			
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects			
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign			
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout			
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout			
Recognise and use factor pairs and commutativity in mental calculations			
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers			
End of Unit assessment score;			
<i>Unit 7 Measurement</i>			
Find the area of rectilinear shapes by counting squares			
Estimate, compare and calculate different measures, including money in pounds and pence			
End of Unit assessment score;			
<i>Unit 8 Number – Fractions [Including decimals]</i>			
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten			
Recognise and show, using diagrams, families of common equivalent fractions			
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number			
End of Unit assessment score;			
<i>Unit 9 Number – Fractions [Including decimals]</i>			
Add and subtract fractions with the same denominator			
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number			
End of Unit assessment score;			
<i>Unit 10 Number – Fractions [Including decimals]</i>			
Recognise and write decimal equivalents of any number of tenths or hundredths			
Solve simple measure and money problems involving fractions and decimals to two decimal places			
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths			
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

- 0 – 27%            Working Below
- 28% – 59%       Exploring
- 60% - 74%       Achieving
- 75%+              Exceeding

<b>Rowde Step 5 Maths assessment</b>	Expl	Achi	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 11 Number – Fractions [Including decimals]</i>			
Recognise and write decimal equivalents of any number of tenths or hundredths			
Add and subtract fractions with the same denominator			
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths			
Compare numbers with the same number of decimal places up to two decimal places			
Round decimals with one decimal place to the nearest whole number			
Recognise and write decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$			
Solve simple measure and money problems involving fractions and decimals to two decimal places			
End of Unit assessment score;			
<i>Unit 12 Measurement</i>			
Estimate, compare and calculate different measures, including money in pounds and pence			
Solve simple measure and money problems involving fractions and decimals to two decimal places			
End of Unit assessment score;			
<i>Unit 13 Measurement</i>			
Convert between different units of measure [for example, kilometre to metre; hour to minute]			
End of Unit assessment score;			
<i>Unit 14 Statistics</i>			
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs			
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs			
End of Unit assessment score;			
<i>Unit 15 Geometry – Properties of Shapes</i>			
Identify acute and obtuse angles and compare and order angles up to two right angles by size			
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes			
Identify lines of symmetry in 2D shapes presented in different orientations			
Complete a simple symmetric figure with respect to a specific line of symmetry			
End of Unit assessment score;			
<i>Unit 16 Geometry – Position &amp; Direction</i>			
Describe positions on a 2D grid as coordinates in the first quadrant			
Plot specified points and draw sides to complete a given polygon			
Describe movements between positions as translations of a given unit to the left/right up/down			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

0 – 27%	Working Below
28% – 59%	Exploring
60% - 74%	Achieving
75%+	Exceeding

<b>Rowde Step 6 Maths assessment</b>	Expl	Achi	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Number &amp; Place Value</i>			
Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit			
Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000			
Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000			
Solve number problems and practical problems that involve all of the above			
Read roman numerals to 1,000 (m) and recognise years written in roman numerals			
End of Unit assessment score;			
<i>Unit 2 Number &amp; Place Value</i>			
Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit			
Solve number problems and practical problems that involve all of the above			
Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000			
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero			
Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000			
End of Unit assessment score;			
<i>Unit 3 Addition &amp; Subtraction</i>			
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)			
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy			
Add and subtract numbers mentally with increasingly large numbers			
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why			
Estimate and use inverse operations to check answers to a calculation			
End of Unit assessment score;			
<i>Unit 4 Statistics</i>			
Complete, read and interpret information in tables, including timetables			
Solve comparison, sum and difference problems using information presented in a line graph			
End of Unit assessment score;			
<i>Unit 5 Multiplication &amp; Division</i>			
Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers			
Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes			
Know and use the vocabulary of prime numbers, prime factors and composite (non- prime) numbers			
Establish whether a number up to 100 is prime and recall prime numbers up to 19			
Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)			
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000			
End of Unit assessment score;			
<i>Unit 6 Measurement</i>			
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres			
Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

0 – 27%	Working Below
28% – 59%	Exploring
60% - 74%	Achieving
75%+	Exceeding



Rowde Step 6 Maths assessment	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 7 Multiplication &amp; Division</i>			
Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers			
Multiply and divide numbers mentally drawing upon known facts			
Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context			
End of Unit assessment score;			
<i>Unit 8 Number - Fractions [Including Decimals &amp; Percentages]</i>			
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths			
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $> 1$ as a mixed number [for example $2/5 + 4/5 = 6/5 = 1\ 1/5$ ]			
Compare and order fractions whose denominators are all multiples of the same number			
End of Unit assessment score;			
<i>Unit 9 Number - Fractions [Including Decimals &amp; Percentages]</i>			
Add and subtract fractions with the same denominator and denominators that are multiples of the same number			
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $> 1$ as a mixed number [for example $2/5 + 4/5 = 6/5 = 1\ 1/5$ ]			
End of Unit assessment score;			
<i>Unit 10 Number - Fractions [Including Decimals &amp; Percentages]</i>			
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams			
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $> 1$ as a mixed number [for example $2/5 + 4/5 = 6/5 = 1\ 1/5$ ]			
End of Unit assessment score;			
<i>Unit 11 Number - Fractions [Including Decimals &amp; Percentages]</i>			
Read, write, order and compare numbers with up to three decimal places			
Read and write decimal numbers as fractions [for example $71/100$ ]			
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
Round decimals with two decimal places to the nearest whole number and to one decimal place			
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal			
Solve problems which require knowing percentage and decimal equivalents of $1/2$ , $1/4$ , $1/5$ , $2/5$ , $4/5$ , and those fractions with a denominator of a multiple of 10 or 25			
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

0 – 27%	Working Below
28% – 59%	Exploring
60% - 74%	Achieving
75%+	Exceeding

<b>Rowde Step 6 Maths assessment</b>	Exp l	Ach i	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 12 Number – Fractions [Including Decimals &amp; Percentages]</i>			
Solve problems involving number up to three decimal places			
Read, write, order and compare numbers with up to three decimal places			
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
End of Unit assessment score;			
<i>Unit 13 Geometry – Property of Shapes</i>			
Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°			
Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles			
Draw given angles, and measure them in degrees (°)			
Use the properties of rectangles to deduce related facts and find missing lengths and angles			
End of Unit assessment score;			
<i>Unit 14 Geometry – Property of Shapes</i>			
Use the properties of rectangles to deduce related facts and find missing lengths and angles			
Identify: –angles at a point and one whole turn (total 360°) –angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) –other multiples of 90°			
Draw given angles, and measure them in degrees (o)			
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles			
Identify 3D shapes, including cubes and other cuboids, from 2D representations			
End of Unit assessment score;			
<i>Unit 15 Geometry – Position &amp; Direction</i>			
Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed			
End of Unit assessment score;			
<i>Unit 16 Measurement</i>			
Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)			
Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling			
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			
Solve problems involving converting between units of time			
End of Unit assessment score;			
<i>Unit 17 Measurement</i>			
Estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

0 – 27% Working Below

28% – 59% Exploring

60% - 74% Achieving

75%+ Exceeding

<b>Rowde Step 7 Maths assessment</b>	Expl	Achi	Exc
<b>Autumn Terms 1 &amp; 2</b>			
<i>Unit 1 Place Value within 10,000,000</i>			
Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit			
Solve number and practical problems that involve all of the above			
Round any whole number to a required degree of accuracy			
Use negative numbers in context, and calculate intervals across zero			
End of Unit assessment score;			
<i>Unit 2 Four Operations [1]</i>			
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why			
Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication			
Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context			
End of Unit assessment score;			
<i>Unit 3 Four Operations [2]</i>			
Identify common factors, common multiples and prime numbers			
Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) (Year 5)			
Use their knowledge of the order of operations to carry out calculations involving the four operations			
Perform mental calculations, including with mixed operations and large numbers			
End of Unit assessment score;			
<i>Unit 4 Fractions [1]</i>			
Use common factors to simplify fractions; use common multiples to express fractions in the same denomination			
Compare and order fractions, including fractions > 1			
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions			
End of Unit assessment score;			
<i>Unit 5 Fractions [2]</i>			
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams			
Multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ )			
Divide proper fractions by whole numbers (for example, $\frac{1}{3}$ divided by 2 = $\frac{1}{6}$ )			
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions			
Use written division methods in cases where the answer has up to two decimal places			
End of Unit assessment score;			
<i>Unit 6 Geometry - Position and Direction</i>			
Describe positions on the full coordinate grid (all four quadrants)			
Draw and translate simple shapes on the coordinate plane, and reflect them in the axes			
End of Unit assessment score;			

**Maths Units Assessments;**

Percentages based on end of unit Scores:

- 0 – 27%            Working Below
- 28% – 59%       Exploring
- 60% - 74%       Achieving
- 75%+              Exceeding

Rowde Step 7 Maths assessment	Expl	Achi	Exc
<b>Spring Terms 1 &amp; 2</b>			
<i>Unit 7 Decimals</i>			
Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places			
Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]			
Use written division methods in cases where the answer has up to two decimal places			
Multiply one-digit numbers with up to two decimal places by whole numbers			
Solve problems which require answers to be rounded to specified degrees of accuracy			
End of Unit assessment score;			
<i>Unit 8 Percentages</i>			
Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts			
Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison			
Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$ ]			
Compare and order fractions, including fractions $> 1$			
End of Unit assessment score;			
<i>Unit 9 Algebra</i>			
Generate and describe linear number sequences			
Use simple formulae			
Express missing number problems algebraically			
Find pairs of numbers that satisfy an equation with two unknowns			
Enumerate possibilities of combinations of two variables			
End of Unit assessment score;			
<i>Unit 10 Measure – Imperial and Metric Measures</i>			
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places			
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate			
Convert between miles and kilometres			
End of Unit assessment score;			
<i>Unit 11 Measure – Perimeter, area and volume</i>			
Recognise that shapes with the same areas can have different perimeters and vice versa			
Recognise when it is possible to use formulae for area and volume of shapes			
Calculate the area of parallelograms and triangles			
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [for example, mm <sup>3</sup> and km <sup>3</sup> ]			
Recognise when it is possible to use formulae for area and volume of shapes			
End of Unit assessment score;			
<i>Unit 12 Ratio and Proportion</i>			
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples			
Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts			
Solve problems involving similar shapes where the scale factor is known or can be found			
End of Unit assessment score;			

Maths Units Assessments;

Percentages based on end of unit Scores:

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60% - 74%	Achieving
75%+	Exceeding

<b>Rowde Step 7 Maths assessment</b>	Expl	Achi	Exc
<b>Summer Terms 1 &amp; 2</b>			
<i>Unit 13 Geometry – properties of shapes</i>			
Draw 2-D shapes using given dimensions and angles			
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons			
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles			
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius			
Recognise, describe and build simple 3-D shapes, including making nets			
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations			
End of Unit assessment score;			
<i>Unit 14 Problem Solving</i>			
Solve number and practical problems that involve all of the above			
Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy			
Solve addition and subtraction multi- step problems in contexts, deciding which operations and methods to use and why			
Solve problems involving addition, subtraction, multiplication and division			
Use their knowledge of the order of operations to carry out calculations involving the four operations			
Use estimation to check answers to Calculations and determine, in the context of a problem, an appropriate degree of accuracy			
Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts			
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples			
Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts			
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places			
Describe positions on the full coordinate grid (all four quadrants)			
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles			
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons			
End of Unit assessment score;			
<i>Unit 15 Statistics</i>			
Calculate and interpret the mean as an average			
Interpret and construct pie charts and line graphs and use these to solve problems			
Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison			
End of Unit assessment score;			

**Maths Units Assessments;**

Percentages based on end of unit Scores:

- 0 – 27%            Working Below
- 28% – 59%       Exploring
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- 75%+               Exceeding