

Term 1		
Unit	NC objectives	Content
Unit 1: Number and place value	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number. Recognize the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones). Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000. 	Week 1: Represent and round numbers up to 10 000 <ul style="list-style-type: none"> Identify and represent numbers using different representations. Find 1000 more or less than a given number. Count in multiples of 25 and 1000. Round any number to the nearest 1000. Round any number to the nearest 100 or 10.
		Week 2: Read, write and compare numbers up to 10 000 <ul style="list-style-type: none"> Recognize the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones). Order and compare numbers beyond 1000. Identify and represent numbers using different representations.
Unit 2: Addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	Week 3: Reasoning and problem-solving with addition (3-digit numbers) <ul style="list-style-type: none"> Add numbers with up to 4 digits using the formal written methods of columnar addition where appropriate. Estimate answers to a calculation. Solve addition two-step problems in contexts, deciding which operations and methods to use and why.
		Week 4: Reasoning and problem-solving with addition and subtraction (3-digit numbers) <ul style="list-style-type: none"> Subtract numbers with up to 4 digits using the formal written methods of columnar subtraction where appropriate. Estimate answers to a calculation. Use inverse operations to check answers to a calculation. Solve addition two-step problems in contexts, deciding which operations and methods to use and why. Solve subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Unit 3: Geometry: properties of shapes	<ul style="list-style-type: none"> Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. 	Week 5: Making and comparing 2D shapes <ul style="list-style-type: none"> Compare and classify geometric shapes, including quadrilaterals, based on their properties and sizes.

	<ul style="list-style-type: none"> Identify lines of symmetry in 2D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry. 	<ul style="list-style-type: none"> Compare and classify geometric shapes, including triangles, based on their properties and sizes.
		Week 6: Making symmetrical shapes <ul style="list-style-type: none"> Identify lines of symmetry in 2D shapes presented in different orientations. Complete a simple symmetric figure with respect to a specific line of symmetry.
Unit 4: Multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12. Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 	Week 7: Making connections between multiplication facts <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2, 4, 8, 10 and 5 multiplication tables. Recall and use multiplication and division facts for the 3, 6, 9, 11, 12 and 7 multiplication tables.
		Week 8: Multiplying larger numbers <ul style="list-style-type: none"> Multiply 2-digit numbers by a 1-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit.
Unit 5: Fractions	<ul style="list-style-type: none"> Count up and down in hundredths; recognize that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Recognize and write decimal equivalents of any number of tenths or hundredths. Recognize and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to two decimal places. Solve simple measure and money problems involving fractions and decimals to two decimal places. 	Week 9: Decimals as numbers <ul style="list-style-type: none"> Count up and down in hundredths. Recognize that hundredths arise when dividing an object by one hundred and dividing tenths by ten. Recognize and write decimal equivalents of any number of tenths or hundredths. Recognize and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$. Round decimals with one decimal place to the nearest whole number. Compare numbers with the same number of decimal places up to two decimal places. Solve simple measure and money problems involving fractions and decimals to two decimal places.
		Week 10: Decimals in context <ul style="list-style-type: none"> Solve simple measure and money problems involving fractions and decimals to two decimal places. Compare numbers with the same number of decimal places up to two decimal places.
Unit 6: Measurement	<ul style="list-style-type: none"> Convert between different units of measure (e.g kilometre to metre; hour to minute). 	Week 11: Solving problems involving mixed measures <ul style="list-style-type: none"> Convert between different units of measure (e.g. kilometre to metre; millilitre to litre).

	<ul style="list-style-type: none"> • Estimate, compare and calculate different measures, including money in pounds and pence. • Read, write and convert time between analogue and digital 12- and 24-hour clocks • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 	<ul style="list-style-type: none"> • Estimate, compare and calculate different measures.
		<p>Week 12: Solving problems involving time</p> <ul style="list-style-type: none"> • Read, write and convert time between analogue and digital 12- and 24-hour clocks. • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
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Term 2		
Unit	NC objectives	Content
Unit 7: Number and place value	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Count backwards through zero to include negative numbers. Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with increasingly large positive numbers. 	Week 1: Rounding and solving word problems with our counting skills <ul style="list-style-type: none"> Count in multiples of 6, 7, 9. Count backwards through zero to include negative numbers. Round any number to the nearest 10 or 100. Round any number to the nearest 1000. Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
Unit 8: Addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	Week 2: Reasoning and problem solving with addition (4-digit numbers) <ul style="list-style-type: none"> Add numbers with up to four digits using the formal written methods of columnar addition where appropriate. Estimate answers to a calculation. Solve addition two-step problems in contexts, deciding which operations and methods to use and why.
		Week 3: Reasoning and problem solving with addition and subtraction (4-digit numbers) <ul style="list-style-type: none"> Subtract numbers with up to four digits using the formal written methods of columnar subtraction where appropriate. Estimate answers to a calculation. Use inverse operations to check answers to a calculation. Solve addition two-step problems in contexts, deciding which operations and methods to use and why. Solve subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Unit 9: Geometry: position and direction	<ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. 	Week 4: Positions and translations on coordinate grids of labelled squares <ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant (on coordinate grids with the spaces between the grid lines labelled). Describe movements between positions as translations of a given unit to the left/right and up/down (on coordinate grids with the spaces between the grid lines labelled).

Unit 10: Measurement	<ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Find the area of rectilinear shapes by counting squares . 	Week 5: Area and perimeter of rectangles and rectilinear shapes <ul style="list-style-type: none"> Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Find the area of rectilinear shapes by counting squares.
Unit 11: Multiplication and division	<ul style="list-style-type: none"> Recall multiplication and division facts for multiplication tables up to 12×12. 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. Recognize and use factor pairs and commutativity in mental calculations. Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 	Week 6: Developing multiplication strategies <ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2, 4, 8, 10 and 5 multiplication tables. Recall and use multiplication and division facts for the 3, 6, 9, 11, 12 and 7 multiplication tables. 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. Recognize and use factor pairs in mental calculations.
		Week 7: Using the distributive law <ul style="list-style-type: none"> Multiply 2-digit numbers by a 1-digit number using formal written layout. Multiply 3-digit numbers by a 1-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit.
Unit 12: Fractions	<ul style="list-style-type: none"> Recognize and show, using diagrams, families of common equivalent fractions. Add and subtract fractions with the same denominator. 	Week 8: Are these fractions equal? <ul style="list-style-type: none"> Recognize and show, using diagrams, families of common equivalent fractions.
		Week 9: Adding and subtracting fractions with the same denominator (within and beyond one whole) <ul style="list-style-type: none"> Add fractions with the same denominator. Subtract fractions with the same denominator.
Unit 13: Statistics	<ul style="list-style-type: none"> 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 and tables. 	Week 10: Representing and summarizing data collected over time <ul style="list-style-type: none"> 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 and tables.
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Term 3		
Unit	NC objectives	Content
Unit 14: Number and place value	<ul style="list-style-type: none"> Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations. Solve number and practical problems that involve all of the above and with increasingly large positive numbers. 	Week 1: Comparing and ordering numbers <ul style="list-style-type: none"> Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different representations. Solve number and practical problems that involve ordering and comparing, and with increasingly large positive numbers.
Unit 15: Measurement	<ul style="list-style-type: none"> Convert between different units of measure (e.g. kilometre to metre; hour to minute). Estimate, compare and calculate different measures, including money in pounds and pence. Read, write and convert time between analogue and digital 12-and 24-hour clocks. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 	Week 2: Converting between units of measurement and solving problems <ul style="list-style-type: none"> Convert between different units of measure (e.g. kilometre to metre; millilitre to litre). Convert hours to minutes and vice versa. Estimate, compare and calculate different measures. Estimate, compare and calculate money in pounds and pence. Read, write and convert time between analogue and digital 12- and 24-hour clocks. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
Unit 16: Addition and subtraction	<ul style="list-style-type: none"> Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	Week 3: Reasoning and problem solving with addition and subtraction <ul style="list-style-type: none"> Add numbers with up to four digits using the formal written methods of columnar addition where appropriate. Subtract numbers with up to four digits using the formal written methods of columnar subtraction where appropriate. Estimate answers to a calculation. Use inverse operations to check answers to a calculation. Solve addition two-step problems in contexts, deciding which operations and methods to use and why. Solve subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Unit 17: Multiplication and division	<ul style="list-style-type: none"> Recognize and use factor pairs and commutativity in mental calculations. 	Week 4: Factors and commutativity

	<ul style="list-style-type: none"> Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 	<ul style="list-style-type: none"> Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit. Recognize and use factor pairs in mental calculations. Recognize and use commutativity in mental calculations.
Unit 18: Geometry: properties of shapes	<ul style="list-style-type: none"> Identify acute and obtuse angles and compare and order angles up to two right angles by size. 	Week 5: Identifying, ordering and comparing angles <ul style="list-style-type: none"> Identify acute and obtuse angles. Compare and order angles up to two right angles by size.
Unit 19: Statistics	<ul style="list-style-type: none"> 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. 	Week 6: Collecting, representing and summarizing data <ul style="list-style-type: none"> 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 and tables. Solve comparison, sum and difference problems using information presented in other graphs.
Unit 20: Geometry: position and direction	<ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down. Plot specified points and draw sides to complete a given polygon. 	Week 7: Using coordinate grids <ul style="list-style-type: none"> Describe positions on a 2D grid as coordinates in the first quadrant (on coordinate grids with the grid lines labelled). Describe movements between positions as translations of a given unit to the left/right and up/down (on coordinate grids with the grid lines labelled). Plot specified points and draw sides to complete a given polygon (on coordinate grids with the grid lines labelled).
Unit 21: Fractions	<ul style="list-style-type: none"> 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. Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 	Week 8: Calculating fractional amounts of a whole <ul style="list-style-type: none"> Solve problems involving increasingly harder fractions to calculate quantities. Solve problems involving fractions to divide quantities, including non-unit fractions where the answer is a whole number.
		Week 9: Decimals and dividing by 10 or 100 <ul style="list-style-type: none"> Find the effect of dividing a 1- or 2-digit number by 10, identifying the value of the digits in the answer as ones and tenths. Find the effect of dividing a 1- or 2-digit number by 100, identifying the value of the digits in the answer as tenths and hundredths.

Unit 22: Problem solving	<ul style="list-style-type: none"> • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. • Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. 	Week 10: Problem solving in contexts <ul style="list-style-type: none"> • Solve addition two-step problems in contexts, deciding which operations and methods to use and why. • Solve subtraction two-step problems in contexts, deciding which operations and methods to use and why. • Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit. • Solve integer scaling problems and harder correspondence problems, such as n objects are connected to m objects.
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