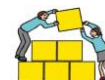


National Curriculum objectives by WRM block



Year 4: Autumn	
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• count backwards through zero to include negative numbers• recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)• order and compare numbers beyond 1000• identify, represent and estimate numbers using different representations• 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• 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.
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.
Length, perimeter and area	<ul style="list-style-type: none">• 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• find the area of rectilinear shapes by counting squares
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• recognise and use factor pairs and commutativity in mental calculations• multiply two-digit and three-digit numbers by a one-digit number using formal written layout• 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.
Perimeter and area	<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

National Curriculum objectives by WRM block



Year 4: Spring

Place value, Addition and Subtraction recap

Place value:

- count in multiples of 6, 7, 9, 25 and 1000
- find 1000 more or less than a given number
- count backwards through zero to include negative numbers
- recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)
- order and compare numbers beyond 1000
- identify, represent and estimate numbers using different representations
- 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
- 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.

Addition and subtraction:

- 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.

Multiplication and Division (continued)

- 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
- recognise and use factor pairs and commutativity in mental calculations
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- 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.

Length, perimeter and area (continued)

- 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
- find the area of rectilinear shapes by counting squares

Fractions

- recognise and show, using diagrams, families of common equivalent fractions
- count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
- 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
- add and subtract fractions with the same denominator

Decimals

- recognise and write decimal equivalents of any number of tenths or hundredths
- recognise and write decimal equivalents
- 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
- 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.

National Curriculum objectives by WRM block



Year 4: Summer	
Place value, Addition, Subtraction, Multiplication and Division recap	
Place value:	<ul style="list-style-type: none">count in multiples of 6, 7, 9, 25 and 1000find 1000 more or less than a given numbercount backwards through zero to include negative numbersrecognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)order and compare numbers beyond 1000identify, represent and estimate numbers using different representationsround any number to the nearest 10, 100 or 1000solve number and practical problems that involve all of the above and with increasingly large positive numbersread 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.
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 appropriateestimate and use inverse operations to check answers to a calculationsolve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.
Multiplication and division:	<ul style="list-style-type: none">recall multiplication and division facts for multiplication tables up to 12×12use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbersrecognise and use factor pairs and commutativity in mental calculationsmultiply two-digit and three-digit numbers by a one-digit number using formal written layoutsolve 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.
Measures (inc money and time)	
	<ul style="list-style-type: none">estimate, compare and calculate different measures, including money in pounds and penceread, write and convert time between analogue and digital 12- and 24-hour clockssolve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
Time	
	<ul style="list-style-type: none">read, write and convert time between analogue and digital 12- and 24-hour clockssolve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
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.
Properties of shape	
	<ul style="list-style-type: none">compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizesidentify acute and obtuse angles and compare and order angles up to two right angles by sizeidentify lines of symmetry in 2-D shapes presented in different orientationscomplete a simple symmetric figure with respect to a specific line of symmetry.
Position and direction	
	<ul style="list-style-type: none">describe positions on a 2-D grid as coordinates in the first quadrantdescribe movements between positions as translations of a given unit to the left/right and up/downplot specified points and draw sides to complete a given polygon.