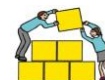
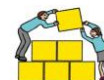


# National Curriculum objectives by WRM block



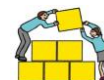
Year 3: Autumn	
Place value	<ul style="list-style-type: none"><li>count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</li><li>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</li><li>compare and order numbers up to 1000</li><li>identify, represent and estimate numbers using different representations</li><li>read and write numbers up to 1000 in numerals and in words</li><li>solve number problems and practical problems involving these ideas.</li></ul>
Addition and Subtraction	<ul style="list-style-type: none"><li>add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds</li><li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li><li>estimate the answer to a calculation and use inverse operations to check answers</li><li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li></ul>
Multiplication and Division	<ul style="list-style-type: none"><li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li><li>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</li><li>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li></ul>

# National Curriculum objectives by WRM block



Year 3: Spring	
Multiplication and Division (continued)	
<ul style="list-style-type: none"><li>• recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li><li>• 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</li><li>• solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li></ul>	
Money	
<ul style="list-style-type: none"><li>• add and subtract amounts of money to give change, using both £ and p in practical contexts</li></ul>	
Fractions	
<ul style="list-style-type: none"><li>• 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</li><li>• recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li><li>• recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</li><li>• recognise and show, using diagrams, equivalent fractions with small denominators</li><li>• add and subtract fractions with the same denominator within one</li><li>• compare and order unit fractions, and fractions with the same denominators</li><li>• solve problems that involve all of the above.</li></ul>	
Statistics	
<ul style="list-style-type: none"><li>• interpret and present data using bar charts, pictograms and tables</li><li>• 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.</li></ul>	
Length and perimeter	
<ul style="list-style-type: none"><li>• measure the perimeter of simple 2-D shapes</li><li>• measure, compare, add and subtract: lengths (m/cm/mm)</li></ul>	

# National Curriculum objectives by WRM block



Year 3: Summer	
Addition, Subtraction, Multiplication and Division recap	
Addition and subtraction:	<ul style="list-style-type: none"> <li>add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> <li>estimate the answer to a calculation and use inverse operations to check answers</li> <li>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</li> </ul>
Multiplication and division:	<ul style="list-style-type: none"> <li>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</li> <li>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</li> <li>solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <math>n</math> objects are connected to <math>m</math> objects.</li> </ul>
Fractions (continued)	
	<ul style="list-style-type: none"> <li>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</li> <li>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</li> <li>recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</li> <li>recognise and show, using diagrams, equivalent fractions with small denominators</li> <li>add and subtract fractions with the same denominator within one</li> <li>compare and order unit fractions, and fractions with the same denominators</li> <li>solve problems that involve all of the above.</li> </ul>
Time	
	<ul style="list-style-type: none"> <li>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour</li> <li>clocks</li> <li>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, a.m./p.m., morning, afternoon, noon and midnight</li> <li>know the number of seconds in a minute and the number of days in each month, year and leap year</li> <li>compare durations of events [for example to calculate the time taken by particular events or tasks].</li> </ul>
Properties of shape	
	<ul style="list-style-type: none"> <li>draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</li> <li>recognise angles as a property of shape or a description of a turn</li> <li>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</li> <li>identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>
Mass and capacity	
	<ul style="list-style-type: none"> <li>measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)</li> </ul>