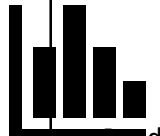




Year 3

<p>Place Value 1</p> <ul style="list-style-type: none"> Count in hundreds to 1000; Represent numbers to 1000 on a place value grid, with place value cards and counters; Understand that a three-digit number is made of 100s, 10s and 1s; Place a three-digit number on a number line marked in 100s and 50s; Find 1, 10 or 100 more or less than a number <p>Place Value 2</p> <ul style="list-style-type: none"> Manipulate the place value of three-digit numbers to support subtraction; e.g. $493 = 400 + 80 + 13$; To find missing digits, add and subtract using place value; e.g. $723 = 700 + ? + 3$; $814 + 70 = ?$ <p>Addition and Subtraction 1</p> <ul style="list-style-type: none"> Add and subtract multiples of 100; e.g. $300 + 500 = 800$; Add and subtract hundreds from a three-digit number; Spot patterns within addition and subtraction; e.g. that $300+400=700$ since $3+4=7$; that if $16-9=7$; $26-9=17$; Solve addition and subtraction word problems within 100; Use bar models to represent problems <p>Addition and Subtraction 2</p> <ul style="list-style-type: none"> Add or subtract 1s from a three-digit number; Subtract 1s from a three-digit number crossing over a 10s boundary; Add and subtract 10s from a three-digit number; Subtract 10s from a three-digit number crossing over a 100s boundary <p>Shape 1</p> <ul style="list-style-type: none"> Identify turns and angles; Identify right angles in shapes; Count right angles as quarter turns; Identify acute and obtuse angles <p>Multiplication and Division 1</p> <ul style="list-style-type: none"> Count in 5s and 50s; Show counting in 50 on a number line and relate counting in 50s to counting in 5s; Solve correspondence problems where n objects is related to n objects; e.g. I have three scarves and two hats, what different combinations can I wear? 	<p>Addition and Subtraction 3</p> <ul style="list-style-type: none"> Add two- and three-digit numbers without carrying Add two three-digit numbers without carrying Add two- and three-digit numbers with carrying Add two three-digit numbers with carrying <p>Addition and Subtraction 4</p> <ul style="list-style-type: none"> Subtract a two-digit number from a three-digit number without exchange; Subtract a three-digit number from a three-digit number without exchange; Subtract a two-digit number from a three-digit number with exchange; Subtract a three-digit number from a three-digit number with exchange <p>Multiplication and Division 2</p> <ul style="list-style-type: none"> Multiply by 3 Divide by 3 <p>Multiplication and Division 3</p> <ul style="list-style-type: none"> Multiply two-digit numbers by one-digit numbers (2, 3, 5); Use arrays to show two digits by one-digit multiplication; Multiply two-digit numbers by one-digit numbers with carrying <p>Multiplication and Division 4</p> <ul style="list-style-type: none"> Divide two-digit numbers by one-digit numbers Divide two-digit numbers by one-digit numbers with carrying; Use place value counters to show two digits by one-digit division <p>Measures 1</p> <ul style="list-style-type: none"> Measure mass in g and kg Compare mass Add and subtract masses including answering word problems using bar models to support thinking 	<p>Place Value 3</p> <ul style="list-style-type: none"> Compare objects to 1000; Compare numbers to 1000 To be able to order numbers to 1000; Solve place value problems <p>Addition and Subtraction 5</p> <ul style="list-style-type: none"> Estimate answers to calculations; Know that addition is the inverse of subtraction and make related addition and subtraction fact families; Recognise the basic bar model for addition and subtraction; Solve missing number problems; Check answers to calculations <p>Multiplication and Division 5</p> <ul style="list-style-type: none"> Multiply by 4; Divide by 4 Relate the 4x table to the 2x table as doubling Use the 4x table to multiply and divide <p>Fractions 1</p> <ul style="list-style-type: none"> Represent, by colouring, drawing and writing unit and non-unit fractions; Compare and order fractions with the same denominator; Combine fractions to make a whole; Relate the image for a fraction to a bar model for division <p>Fractions 2</p> <ul style="list-style-type: none"> Identify and represent tenths; e.g. know that 10 tenths make a whole, and relate this to 10 ones making 10 and 10 tens making 100; Colour tenths on a fraction bar and place tenths on a number line from 0-1; Count in tenths; Know the term 'decimal point'; Identify and represent tenths as decimals; e.g. know that 3 ones and 5 tenths can be written as 3.5 <p>Shape 2</p> <ul style="list-style-type: none"> Draw lines to the nearest cm and mm; Identify vertical and horizontal lines; Identify parallel and perpendicular lines (shape names); Connect decimals to drawing and measuring in cm and mm; e.g. describe a line as 3.4cm long 	<p>Multiplication and Division 6</p> <ul style="list-style-type: none"> Divide two-digit numbers by one-digit numbers with carrying and remainders; Know that multiplication is the inverse of division and create related calculation fact families; Recognise the basic bar model for multiplication and division; Find missing numbers in multiplication and division calculations <p>Multiplication and Division 7</p> <ul style="list-style-type: none"> Multiply by 8; Divide by 8; Relate the 8x table to the 2x and 4x table as doubling; Use the 8x table to multiply and divide <p>Fractions 3</p> <ul style="list-style-type: none"> Represent fractions greater than one on a number line; Relate fractions to division e.g. to start with using a similar bar model <p>Measures 2</p> <ul style="list-style-type: none"> Measure length in metres, using metre rulers, tape measures and trundle wheels; Identify equivalent lengths using cm and mm and also cm and m; Compare lengths; Add lengths; Subtract lengths; Solve positive integer scaling problems, using a map where $1\text{cm} = 100\text{m}$; <p>Measures 3</p> <ul style="list-style-type: none"> Explore facts about months and years; e.g. know how many days in each month, year and leap year; Explore facts about hours and days; Tell the time to the nearest 5 minutes on an analogue and digital 12-hour clock; To be able to use am and pm <p>Shape 3</p> <ul style="list-style-type: none"> Identify, describe and draw 2d shapes; (KS1 + octagon, hexagon, pentagon, parallelogram) Make 3d shapes from nets (cube, cuboid, triangular prism, pyramid) Recognise symmetry in polygons and polyhedra 	<p>Addition and Subtraction 6</p> <ul style="list-style-type: none"> Solve word problems involving addition and subtraction; Solve number problems involving addition and subtraction; e.g. adding and subtracting consecutive numbers within 100 <p>Multiplication and Division 8</p> <ul style="list-style-type: none"> Solve multiplication and division word problems in context <p>Measures 4 <i>(always with £ and p separate)</i></p> <ul style="list-style-type: none"> Identify notes and coins; Convert between pounds and pence; Add amounts of money together; Subtract money; Give change <p>Fractions 4</p> <ul style="list-style-type: none"> Find a unit fraction of an amount; Find a non-unit fraction of an amount (within known tables) <p>Measures 5</p> <ul style="list-style-type: none"> To be able to tell the time to the nearest minute on an analogue and digital 12hr and 24hr clock; To be able to use the 24-hour clock <p>Calculation Problems</p> <ul style="list-style-type: none"> Represent problems in bar models; Recognise common bar models for addition, subtraction, multiplication and division; Use bar models to determine what a word problem is asking and to make the correct choice of calculation 	<p>Multiplication and Division 9</p> <ul style="list-style-type: none"> Rapidly recall the 2, 3, 4, 5, 8 and 10 x tables <p>Measures 6</p> <ul style="list-style-type: none"> Define perimeter as a length measured in cm Measure perimeter; Calculate perimeter <p>Measures 7</p> <ul style="list-style-type: none"> Calculate the duration of events; Compare the duration of events; Calculate start and end times Recognise the Roman numerals on a clock face Measure time in seconds <p>Fractions 5</p> <ul style="list-style-type: none"> Recognise and show equivalent fractions; Add and subtract fractions with the same denominator by counting; Add and subtract fractions with the same denominator using known facts <p>Measures 8</p> <ul style="list-style-type: none"> Measure capacity in l and ml; Compare capacity; Add and subtract capacity <p>Addition and Subtraction 7</p> <ul style="list-style-type: none"> Add and subtract two-digit numbers mentally within 100; Add two-digit numbers mentally where the answer is greater than 100
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STATISTICS:

- Read and interpret pictograms – Science Autumn 1 (Magnets)
- Read and interpret bar charts – Science Autumn 1 (Magnets)
- Read and interpret scaled bar charts (in 2s, 5s and 10s) – Science Summer 1 (Sound)
- Read and interpret tables – Science Summer 1 (Sound)