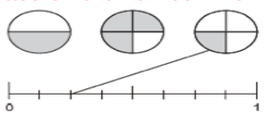
Year 3 Yearly Overview for maths.

	Autumn	Spring	Summer
Number / P. v.	Count from 0 in multiples of 4, 8, 50, and 100; find 10 or 100 more or less than a given number. Recognise the place value of each digit in a 3 digit number (hundreds, tens, ones.) Compare and order numbers up to 1000. Read and write numbers up to 1000 in numerals and in words.	Solve number problems and practical problems involving these ideas. Jack walks 645 metres to school. Suzy walks 100 metres less. How far does Suzy walk? Identify, represent and estimate numbers using different representations	Solve number problems and practical problems involving these ideas.
+/-	Add and subtract numbers mentally, including: ○ a three-digit number and ones ○ a three-digit number and tens ○ a three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	Estimate the answer to a calculation and use inverse operations to check answers Work out the missing digits: 3☐ + ☐2 = 85 Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. Layla has 45p in her money bank and 28p in her purse. How much more money does she need to buy a comic that costs £1?	Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
x/÷	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.	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. Mark drives 19 miles to work every day and 19 miles back. He does this on Mondays, Tuesdays, Wednesdays, Thursdays and Fridays. How many miles does he travel to work and back in one week?	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. Miss West needs 28 paper cups. She has to buy them in packs of 6 How many packs does she have to buy?
Fractions	*Need to work on x and ÷ facts to help with fractions next term.* 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 Here is part of a number line. Write in the numbers missing from the two empty boxes. 	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Unit Fractions. Unit means one. Here are some examples of unit fractions.  Non-unit fractions. Unit means one, so non-unit is any number apart from one. Here are some examples of non-unit fractions.  Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators A fraction of each shape is shaded. Match each fraction to the correct place on the number line. One has been done for you.  Recognise and show, using diagrams, equivalent fractions with small denominators Compare and order unit fractions, and fractions with the same denominators Would you rather have 1/3 of 30 sweets or 1/5 of 40 sweets? Why?	Add and subtract fractions with the same denominator within one whole (for example, 5/7+1/7 = 6/7) Solve problems that involve all of these objectives. Meg has 20 pet stickers to go on this page:  1/4 of them are dog stickers 1/2 of them are cat stickers The rest are rabbit stickers How many rabbit stickers does she have?

Green: could be covered through topic work. Red: examples of questions. Blue: Links with other areas of maths.

Measure		Measure, compare, add and subtract: length (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Jake wants to buy a comic that costs £1. He saves 25p one week and 40p the next. How much more money does he need to buy the comic?	Measure the perimeter of simple 2-D shapes (Links with 2D shapes and mental addition skills.)
Time	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks 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, a.m./p.m., morning, afternoon, noon and midnight	Compare duration of events [for example to calculate the time undertaken by particular events or tasks] Estimate how long your favourite TV programme lasts. Use a television guide to work out how close your estimation was. How much does it cost to hire a rowing boat for three hours? Boat Hire Motor boats £1.50 for 15 minutes | Rowing boats £2.50 for 1 hour
Money	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Add and subtract amounts of money to give change, using both £ and p in practical contexts
Geometry	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	Recognise angles as a property of shape or a description of a turn Identify right angles identify whether angles are greater than or less than a right angle	Recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn Identify horizontal and vertical lines and pairs of perpendicular and parallel lines
Statistics	interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

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