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| Autumn 1 | 1. Number sense and exploring calculation strategies (3 weeks)  
- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction  
- recognise the place value of each digit (tens, ones), compare and order numbers up to 100  
- find 10 more or less than a given number  
- read and write numbers up to 100 in numerals and in words  
- solve number problems and practical problems involving these ideas  
- identify, represent and estimate numbers using different representations, including the number line  
- add and subtract amounts of money to give change, using both £ and p in practical contexts |
| | 2. Place value (2 weeks)  
- identify, represent and estimate numbers using different representations  
- find 10 or 100 more or less than a given number  
- recognise the place value of each digit in a three-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  
- count from 0 in multiples of 50 and 100 |
| | 3. Graphs (1 week)  
- interpret and present data using bar charts, pictograms and tables  
- 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 |
| | 4. Addition and subtraction (3 weeks)  
- 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  
- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction |
| | 5. Length and perimeter (2 weeks)  
- measure, compare, add and subtract: lengths (m/cm/mm)  
- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction  
- measure the perimeter of simple 2-D shapes  
- continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed ... and simple equivalents of mixed units (for example, 5m = 500cm) |
# Year 3 Programme of Study - ‘Term per page overview’ 2016-2017

## Spring

### 6. Multiplication and division (2 weeks)
- recall and use multiplication and division facts for the 3 and 4 multiplication tables
- count from zero in multiples of 4
- 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

### 7. Deriving multiplication and division facts (3 weeks)
- recall and use multiplication and division facts for the 3 and 4 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
- 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

### 8. Time (2 weeks)
- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- 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
- know the number of seconds in a minute and the number of days in each month, year and leap year
- compare durations of events [for example to calculate the time taken by particular events or tasks]

### 9. Fractions (3 weeks)
- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- 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
- recognise and show, using diagrams, equivalent fractions with small denominators
- add and subtract fractions with the same denominator within one whole [for example, \( \frac{5}{7} + \frac{1}{7} = \frac{6}{7} \)]
- compare and order unit fractions, and fractions with the same denominators
- solve problems that involve all of the above
### Summer

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| **10. Angles and shape**  
(3 weeks) | | - recognise angles as a property of shape or a description of a turn  
- 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  
- identify horizontal and vertical lines and pairs of perpendicular and parallel lines  
- draw 2-D shapes and make 3-D shapes using modelling materials  
- recognise 3-D shapes in different orientations and describe them  
- measure the perimeter of simple 2-D shapes |
| **11. Measures**  
(3 weeks) | | - measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)  
- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction  
- continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 5m = 500cm) |
| **12. Securing multiplication & division**  
(1 week) | | - 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  
- recall and use multiplication and division facts for the 8 multiplication tables  
- count from zero in multiples of 8 |
| **13. Exploring calculation strategies and place value**  
(2 weeks) | | - add and subtract numbers mentally  
- find 1000 more or less than a given number; recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) (Y4)  
- order and compare numbers beyond 1000 (Y4)  
- round any number to the nearest 10, 100 or 1000 (Y4) |