# Maths

# Year 3

Non-negotiable

| |
|---|
| Partition 3-digit numbers in different ways, including into multiples of 100, 10 and 1. |
| Derive and recall all addition and subtraction facts for each number to 20, sums and differences of multiples of 10 and number pairs that total 100. |
| Derive and recall multiplication facts for the 2,3,4,5,8 and 10 times tables and the corresponding division facts. |

**Number and place value**

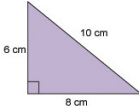| N | Assessed | Examples |
|---|---|---|
| 1 | *Count from 0 in* <br> *Multiples of 4* <br> *Multiples of 8* <br> *Multiples of 50* <br> *Multiples of 100* | |
| 2 | *Find 5, 10 or 100 more or less than a number* | |
| 3 | *Recognise the place value of each digit in a three-digit number* | |
| 4 | *Compare and order numbers up to 1000* | |
| 5 | *Identify, represent and estimate numbers in different ways e.g. measures* | |
| 6 | *Read and write numbers up to 1000 in numbers and in words* | |
| 7 | *Solve number problems and practical problems involving the above* | |

**Addition, subtraction, multiplication and division**

| A | Assessed | Examples |
|---|---|---|
| 1 | *Add and subtract mentally:* <br> *A 3-digit number and ones* <br> *A 3-digit number and tens* <br> *A 3-digit number and hundreds* | |
| 2 | *Use the formal written column methods to add and subtract numbers with up to three digits* | |
| 3 | *Estimate the answer to a calculation* | |
| 4 | *Use inverse operations to check calculations* | |
| 5 | *Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction* | |
| 6 | *Recall and use multiplication and division facts for the* <br> *3 times tables* <br> *4 times tables* <br> *8 times tables* | |
| 7 | *Use multiplication tables to help answer multiplication and division questions* | |
| 8 | *Use mental methods for multiplication and division using a two-digit number by a one-digit number* | *80x3=* <br> *Use knowledge of 8x3 to solve* |
| 10 | *Solve problems including:* <br> *Missing number problems* <br> *Multiplication and division problems Integer scaling* <br> *Correspondence problems where n objects are connected to m objects* | *Integer scaling: Four times as high as…* <br><br> *Correspondence: 3 hats and 4 coats; how many different outfits* |

**Fractions**

| F | Assessed | Examples |
|---|---|---|
| 1 | **_Count up and down in tenths_** | |
| 2 | **_Know that tenths are when we divide an object into 10 equal parts and in dividing one-digit numbers or quantities by 10_** | |
| 3 | **_Recognise, find and write fractions of a set of objects_** | *Find 1/4 of 12*<br>*Recognise that 10 taken from a group of 20 is 1/2* |
| 4 | **_Recognise, find and write unit fractions and non-unit fractions with small denominators_** | *Unit fractions: 1/2, 1/5, 1/10 etc*<br>*Non unit fraction: 2/3, 3/4 etc* |
| 5 | *Recognise and use fractions as numbers, including unit fractions and non-unit fractions with small denominators* | *Understand that fractions such as 1/2, 1/5, 2/3 and 3/4 are numbers* |
| 6 | **_Recognise and show, using diagrams, equivalent fractions with small denominators_** | |
| 7 | *Add and subtract fractions with the same denominator, within a whole* | *5/7 + 1/7 = 6/7* |
| 8 | *Compare and order unit fractions and fractions with the same denominators* | *1/5 < 4/5*<br>*1/4, 2/4, 3/4* |
| 9 | *Solve problems that involve all of the above* | |

**Measurement**

| M | Assessed | Examples |
|---|---|---|
| 1 | **_Measure and compare_**<br>**_Length_**<br>**_Mass_**<br>**_Volume/capacity_** | |
| 2 | **_Add and subtract_**<br>**_Length_**<br>**_Mass_**<br>**_Volume/capacity_** | |
| 3 | *Measure the perimeter of simple 2D shapes* |  *Perimeter = 6+10+8* |
| 4 | **_Add and subtract amounts of money to give change, using both £ and p in practical context_** | |
| 5 | *Tell and write the time from analogue clocks, using Roman numerals* | |
| 6 | **_Tell and write the time from analogue clocks, using 12 and 24 hour clocks_** | |
| 7 | *Estimate and read time to the nearest minute* | |
| 8 | *Record and compare time in terms of seconds, minutes, hours and O'clock* | |
| 9 | *Use vocabulary such as am, pm, morning, afternoon, noon and midnight* | |
| 10 | *Know the number of seconds in a minute and the number of days in each month, year and leap year* | |
| 11 | *Calculate and compare duration of events* | |

## Properties of shapes

| Sh | Assessed | Examples |
|---|---|---|
| 1 | Draw 2D shapes<br>Draw and measure straight lines including diagonals | |
| 2 | Make 3D shapes using modelling materials | |
| 3 | Recognise 3D shapes in different orientations and describe them | |
| 4 | Recognise that angles are a property of a shape or a description of a turn | |
| 5 | **_Identify right angles_** | |
| 6 | **_Recognise that 2 right angles make half a turn, 3 make three quarters of a turn and four a complete turn_** | |
| 7 | **_Identify whether angles are greater or less than a right angle_** | |
| 8 | Identify horizontal and vertical lines | |
| 9 | Draw and measure straight lines including horizontals | |
| 10 | Identify pairs of parallel and perpendicular lines | |

## Statistics

| S | Assessed | Examples |
|---|---|---|
| 1 | **_Interpret and present data using bar charts, pictograms and tables_** | |
| 2 | Solve one-step and two-step problems using information in scaled bar charts, pictograms and tables | 'How many more?'<br>'How many fewer?' |