

## Year 5, Autumn Term 1

### Wk Strands

1 **NPV** Number and place value; **WAS** Written addition and subtraction; **PRA** Problem solving, reasoning and algebra

### Weekly Summary

Read, write, compare and order 5-digit numbers, understanding the place value and using < and > signs; add and subtract multiples of 10, 100 and 1000 to and from 5-digit numbers; use written addition to add two 4-digit numbers; work systematically to spot patterns.

**Mastery Checkpoint** There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Read and write numbers to at least 1 000 000
- Order and compare numbers to at least 1 000 000

Please see [Mastery Checkpoint 5.1.1 \(Teacher Guide 5.1.1\)](#)

- Add whole numbers with 4 digits, including using the formal written method of columnar addition (answers > 10 000)
- Use place value and number facts to add and subtract 2-, 3- and 4-digit numbers

Please see [Mastery Checkpoint 5.1.2 \(Teacher Guide 5.1.2\)](#)

2 **MAS** Mental addition and subtraction; **NPV** Number and place value

Add and subtract 2- 3- and 4-digit numbers mentally; choose a strategy for solving mental additions or subtractions; solve word problems

3 **DPE** Decimals, percentages and their equivalence to fractions; **PRA** Problem solving, reasoning and algebra; **MMD** Mental multiplication and division

Understand place value in decimal numbers; multiply and divide numbers with up to two decimal places by 10 and 100; multiply and divide by 0 and 100; add and subtract 0.1 and 0.01; multiply and divide by 4 by doubling or halving twice; use mental multiplication strategies to multiply by 20, 25 and 9

4 **MEA** Measurement

Revise converting 12-hour clock times to 24-hour clock times; find a time a given number of minutes or hours and minutes later; calculate time intervals using 24-hour clock format; measure lengths in mm and convert to cm; find perimeters in cm and convert cm to m

**Mastery Checkpoint** There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Understand the 24-hour clock, convert times, calculate time intervals and use timetables
- Complete, read and interpret information in timetables using 24-hour times

Please see [Mastery Checkpoint 5.4.3 \(Teacher Guide 5.4.3\)](#)

5 **WAS** Written addition and subtraction; **MAS** Mental addition and subtraction

Solve subtraction using a written method for 3-digit – 3-digit numbers and for 4-digit numbers; use counting up (Frog) as a strategy to perform mental subtraction; find change from a multiple of ten pounds using counting up

## Year 5, Autumn Term 2

### Wk Strands

6 **MMD** Mental multiplication and division; **FRP** Fractions, ratio and proportion

7 **MMD** Mental multiplication and division; **WMD** Written multiplication and division; **PRA** Problem solving, reasoning and algebra

8 **GPS** Geometry: properties of shapes; **PRA** Problem solving, reasoning and algebra

9 **NPV** Number and place value; **DPE** Decimals, percentages and their equivalence to fractions; **FRP** Fractions, ratio and proportion

### Weekly Summary

Recognise which numbers are divisible by 2, 3, 4, 5, 6, 9 and 25 and identify multiples; find factors; recording results systematically and finding all factors of a given number; compare and place fractions on a line; find equivalent fractions and reduce them to their simplest form

#### Mastery Checkpoint

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Solve problems involving multiplication and division using knowledge of factors, doubles and halves, and times tables

Please see [Mastery Checkpoint 5.6.4 \(Teacher Guide 5.6.4\)](#)

Use mental strategies to multiply and divide multiples of 10 and 100; use a written method to multiply 3-digit and 4-digit numbers by 1-digit numbers and estimate answers, divide 3-digit numbers by 1-digit numbers using a written method and express remainders as a fraction and solve division word problems

#### Mastery Checkpoint

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Choose a mental or written method to solve problems, including word problems, involving division (including 2-/3-digit divided by 1-digit), and spot and explain patterns and relationships

Please see [Mastery Checkpoint 5.7.5 \(Teacher Guide 5.7.5\)](#)

Use a protractor to measure and draw angles in degrees; recognise, use terms and classify angles as obtuse, acute and reflex; recognise that angles on a line total  $180^\circ$  and angles round a point total  $360^\circ$ ; identify and name parts of a circle including diameter, radius and circumference; draw circles to a given radius using a pair of compasses; relate angles to turns, and recognise that a  $360^\circ$  angle is a complete turn; use angle facts to solve problems related to turn

#### Mastery Checkpoint

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Estimate and compare acute, obtuse and reflex angles
- Know angles are measured in degrees

Please see [Mastery Checkpoint 5.8.6 \(Teacher Guide 5.8.6\)](#)

Place numbers to 100 000 and decimals up to two places on a line, round numbers to the nearest 10, 100 and 1000 and decimals up to two places to the nearest whole number; compare and order numbers with up to two decimal places; reduce fractions to their simplest form; know and recognise equivalent fractions and decimals to half, tenths and fifths

#### Mastery Checkpoint

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Read, write, order and compare numbers with up to 2 decimal places

Please see [Mastery Checkpoint 5.9.7 \(Teacher Guide 5.9.7\)](#)

- Identify, name and write equivalent fractions, including simplest forms of a given fraction, represented visually, including tenths and hundredths

Please see [Mastery Checkpoint 5.9.8 \(Teacher Guide 5.9.8\)](#)

- 10 **MAS** Mental addition and subtraction; **WAS** Written addition and subtraction; **MMD** Mental multiplication and division; **WMD** Written multiplication and division; **PRA** Problem solving, reasoning and algebra

Revise mental and written addition and subtraction strategies, choose to use a mental strategy or written method to solve addition and subtraction, choose to solve word problems involving multiplication and division questions including 2- and 3-digit by 1-digit and 2-digit by 2-digit using a mental or a written method, use mathematical reasoning to work out a function, identify the operation being used on numbers, understand that addition and subtraction are inverse operations multiplication and division, use function machines

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Subtract whole numbers with 4 digits. including using the formal written method of columnar subtraction
- Use place value and number facts to add and subtract 2-, 3- and 4-digit numbers
- Begin to add and subtract numbers mentally with increasingly large numbers

Please see [Mastery Checkpoint 5.10.9 \(Teacher Guide 5.10.9\)](#)

- Choose a mental or a written method to solve problems, including word problems, involving multiplication (including 2-/3-digit x 1-digit; 2-digit x 2-digit)

Please see [Mastery Checkpoint 5.10.10 \(Teacher Guide 5.10.10\)](#)

## Year 5, Spring Term 1

### Wk Strands

- 11 **NPV** Number and place value; **DPE** Decimals, percentages and their equivalence to fractions; **PRA** Problem solving, reasoning and algebra

### Weekly Summary

Read, write and order numbers with up to 6 digits and understand the place value of each digit; place 6-digit numbers on a number line and find numbers between; solve place-value additions and subtractions with 6-digit numbers; understand place value in decimal numbers as tenths and hundredths; multiply and divide by 10/100/1000 using a place-value grid; understand place value in decimal numbers to 2-decimal places; place decimal numbers on a line; round two-place decimal numbers to nearest tenth and whole number; say the number a tenth or a hundredth more

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- Read and write numbers to at least 1 000 000
- Order and compare numbers to at least 1 000 000
- Determine the value of each digit in numbers to at least 1 000 000 and use to solve place value additions and subtractions
- Order and compare 6-digit numbers and place on a number line

Please see [Mastery Checkpoint 5.11.11 \(Teacher Guide 5.11.11\)](#)



- Add and subtract 0.1 or 0.01 to/from numbers with up to 2 decimal places
- Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
- Multiply and divide numbers by 10 and 100, including decimal numbers and those leading to decimal answers

Please see [Mastery Checkpoint 5.11.12](#) ([Teacher Guide 5.11.12](#))

- 12 **MAS** Mental addition and subtraction; **PRA** Problem solving, reasoning and algebra; **WAS** Written addition and subtraction

Rehearse mental addition strategies for decimals and whole numbers; use counting on as a strategy to perform mental addition of 2-place decimals to the next whole number; solve missing number sentences; use mental strategies to solve multi-step word problems; use counting up as a strategy to perform written subtraction (Frog)

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Solve problems involving numbers with up to 3 decimal places, including in the context of measures

Please see [Mastery Checkpoint 5.12.13](#) ([Teacher Guide 5.12.13](#))

- Add and subtract numbers mentally with increasingly large numbers
- Solve addition 1- step and multi-step problems using mental addition

Please see [Mastery Checkpoint 5.12.14](#) ([Teacher Guide 5.12.14](#))

- 13 **MMD** Mental multiplication and division; **NPV** Number and place value; **PRA** Problem solving, reasoning and algebra

Use rules of divisibility to find if numbers are divisible by 2, 3, 4, 5, 9 and 10; identify prime numbers; revise finding factors of numbers; find squares and square roots of square numbers; finding patterns and making and testing rules; use mental multiplication and division strategies; relate mental division strategies to multiples of ten of the divisor

#### **Mastery Checkpoint**

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers
- Multiply and divide numbers mentally drawing upon known facts
- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers; establish whether a number up to 100 is prime and recall prime numbers up to 19
- Recognise and use square numbers and their notation (2)

Please see [Mastery Checkpoint 5.13.15](#) ([Teacher Guide 5.13.15](#))

- 14 **PRA** Problem solving, reasoning and algebra; **GPS** Geometry: properties of shapes; **MEA** Measurement; **STA** Statistics

Know properties of equilateral, isosceles, scalene and right-angled triangles; find that angles in a triangle have a total of 180°; sort triangles according to their properties; use scales to weigh amounts to the nearest half interval; convert from grams to kilograms and vice versa, from millilitres to litres and vice versa, and from metres to kilometres and vice versa; read scales to the nearest half division; understand that we measure distance in kilometres and miles; use ready reckoning to give approximate values of miles in kilometres and vice versa; draw line conversion graphs

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Know that the angles in a triangle add up to 180° and devise and test rules to find a missing angle
- Describe the properties of triangles (including scalene, right-angled, isosceles and equilateral)

Please see [Mastery Checkpoint 5.14.16](#) ([Teacher Guide 5.14.16](#))

- Convert between different units of metric measure (km / m; cm / m; cm / mm; g / kg; L / ml)

- 15 **WAS** Written addition and subtraction; **PRA** Problem solving, reasoning and algebra; **MEA** Measurement
- Please see [Mastery Checkpoint 5.14.17 \(Teacher Guide 5.14.17\)](#)
- Use a written column method to add amounts of money in pounds and pence; add 2-place decimals using written column addition; subtract decimal numbers using counting up (Frog)
- Mastery Checkpoint**
- There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:
- Add whole numbers and 1-place decimals using appropriate mental strategies
  - Add 1- and 2-place decimal numbers (including money) choosing and using an appropriate method (including columnar addition and mental methods)
  - Use counting on and bonds to 100 to add to any 2-place decimal to find the next whole number
  - Subtract amounts of money and other 1- and 2-place decimal numbers in the context of measures
  - Add 2-digit numbers with 2-place decimals, including money, using column addition
- Please see [Mastery Checkpoint 5.15.18 \(Teacher Guide 5.15.18\)](#)
- 

## Year 5, Spring Term 2

### Wk Strands

### Weekly Summary

- 16 **WMD** Written multiplication and division
- Use a written method (grid) to multiply pairs of 2-digit numbers; use short division to divide 3-digit numbers by 1-digit numbers, including those which leave a remainder
- Mastery Checkpoint**
- There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:
- Choose an appropriate method to divide one number by another, including for larger numbers requiring a written procedure
  - Use short division to divide 3-digit numbers by 1-digit numbers (including those that leave a remainder)
- Please see [Mastery Checkpoint 5.16.19 \(Teacher Guide 5.16.19\)](#)
- 17 **WMD** Written multiplication and division; **FRP** Fractions, ratio and proportion
- Find unit fractions and non-unit fractions of 3-digit numbers; use short multiplication to multiply 3-digit numbers by 1-digit numbers; begin to use short multiplication to multiply 4-digit numbers by 1-digit numbers
- Mastery Checkpoint**
- There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:
- Find unit and non-unit fractions of 2 and 3 digit numbers
- Please see [Mastery Checkpoint 5.17.20 \(Teacher Guide 5.17.20\)](#)
- Use a written method to multiply pairs of 2-digit numbers
  - Use short multiplication to multiply 3-digit numbers by 1-digit numbers, rounding to estimate answers
- Please see [Mastery Checkpoint 5.17.21 \(Teacher Guide 5.17.21\)](#)



18	<b>GPS</b> Geometry: properties of shapes; <b>PRA</b> Problem solving, reasoning and algebra; <b>MEA</b> Measurement	<p>Understand what a polygon is; draw polygons using dotted square and isometric paper; revise terms obtuse, acute and reflex angles, perpendicular and parallel sides; recognise quadrilaterals as polygons and identify their properties; classify quadrilaterals; draw regular polygons and explore their properties; revise metric units of weight, capacity and length; understand that we can measure in imperial units and relate these to their instances in daily life</p> <p><b>Mastery Checkpoint</b></p> <p>There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:</p> <ul style="list-style-type: none"> <li>• Use mathematical reasoning to identify properties of different polygons, including equal sides and angles and explain findings</li> <li>• Identify and define a polygon; distinguish between regular and irregular polygons based on reasoning about equal sides and angles</li> </ul> <p>Please see <a href="#">Mastery Checkpoint 5.18.22</a> (<a href="#">Teacher Guide 5.18.22</a>)</p>
19	<b>FRP</b> Fractions, ratio and proportion; <b>PRA</b> Problem solving, reasoning and algebra	<p>Place mixed numbers on lines; count up in fractions using equivalence; convert improper fractions to mixed numbers and vice versa; write improper fractions as mixed numbers and vice versa; multiply proper fractions by whole numbers</p> <p><b>Mastery Checkpoint</b></p> <p>There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:</p> <ul style="list-style-type: none"> <li>• Recognise mixed numbers and improper fractions and convert from one form to the other; look for patterns and write rules</li> <li>• Place fractions on a number line and count in steps of a given fraction, using equivalence</li> </ul> <p>Please see <a href="#">Mastery Checkpoint 5.19.23</a> (<a href="#">Teacher Guide 5.19.23</a>)</p>
20	<b>WAS</b> Written addition and subtraction; <b>PRA</b> Problem solving, reasoning and algebra	<p>Solve subtraction of 4-digit numbers using written column subtraction (decomposition); add several numbers using written column addition; use column to solve problems</p> <p><b>Mastery Checkpoint</b></p> <p>There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:</p> <ul style="list-style-type: none"> <li>• Count up to solve 4-digit minus 4-digit subtractions from near multiples of 1000, where column subtraction is awkward; use column subtraction where appropriate</li> <li>• Use columnar addition to add more than 2 numbers with up to 4 digits</li> </ul> <p>Please see <a href="#">Mastery Checkpoint 5.20.24</a> (<a href="#">Teacher Guide 5.20.24</a>)</p>

## Year 5, Summer Term 1

### Wk Strands

21 **MAS** Mental addition and subtraction; **DPE** Decimals, percentages and their equivalence to fractions; **PRA** Problem solving, reasoning and algebra

### Weekly Summary

Add mentally 2-place decimal numbers in the context of money using rounding; add several small amounts of money using mental methods; mentally subtract amounts of money including giving change; calculate the difference between two amounts using counting up; solve word problems, including 2-step problems, choosing an appropriate method

#### Mastery Checkpoint

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Use rounding to check answers to calculations and determine, in the context of a problem, level of accuracy; use addition to check subtraction
- Subtract 2-place decimal numbers (including money) using counting up or mental methods
- Solve addition and subtraction problems, including multi-step and word problems; decide which operations and methods to use and why
- Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

Please see [Mastery Checkpoint 5.21.25](#) ([Teacher Guide 5.21.25](#))

22 **FRP** Fractions, ratio and proportion; **PRA** Problem solving, reasoning and algebra; **WMD** Written multiplication and division

Multiply fractions less than 1 by whole numbers, convert improper fractions to whole numbers; use short multiplication to multiply 3-digit and 4-digit numbers by 1-digit numbers; use long multiplication to multiply 2-digit and 3-digit numbers by teens numbers

**Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Multiply proper fractions by whole numbers, supported by materials and diagrams, spot patterns and make generalisations

Please see [Mastery Checkpoint 5.22.26](#) ([Teacher Guide 5.22.26](#))

- Use short multiplication to multiply 4-digit numbers by 1-digit numbers, rounding to estimate answers

Please see [Mastery Checkpoint 5.22.27](#) ([Teacher Guide 5.22.27](#))

23 **DPE** Decimals, percentages and their equivalence to fractions; **PRA** Problem solving, reasoning and algebra; **NPV** Number and place value

Read, write and compare decimals to three decimal places, understanding that the third decimal place represents thousandths; multiply and divide numbers by 10, 100 and 1000 using 3-place decimal numbers in the calculations; place 2-place decimals on a number line and round them to the nearest tenth and whole number; read, write, order and compare 3-place decimal numbers; understand and use negative numbers in the context of temperature

**Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Read, write, order and compare numbers with up to 3 decimal places
- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

Please see [Mastery Checkpoint 5.23.28](#) ([Teacher Guide 5.23.28](#))

- Interpret negative numbers in context; count forwards and backwards with positive and negative whole numbers, including through 0; solve problems in the context of temperature

Please see [Mastery Checkpoint 5.23.29](#) ([Teacher Guide 5.23.29](#))

24 **GPD** Geometry: position and direction; **PRA** Problem solving, reasoning and algebra; **GPS** Geometry: properties of shapes

Read and mark co-ordinates in the first two quadrants; draw simple polygons using co-ordinates; translate simple polygons by adding to and subtracting from the co-ordinates; reflect simple shapes in the y axis or in a line, noting the effect on the co-ordinates; translate simple shapes and note what happens to the co-ordinates; draw regular and irregular 2D shapes using given dimensions and angles; use the properties of 2D shapes, including rectangles, to derive related facts; identify 3D shapes from 2D representations; create 3D shapes using 2D nets and draw 3D shapes

**Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Identify, describe and represent the position of a shape following a reflection or translation using the appropriate language; know that the shape has not changed; describe the relationship between the shapes' co-ordinates
- Read and mark coordinates in the first two quadrants and plot and join coordinates to create a polygon

Please see [Mastery Checkpoint 5.24.30](#) ([Teacher Guide 5.24.30](#)) ([Additional Resource 5.24.30](#))

- Draw given angles and straight lines to given lengths to create a triangle
- Identify 3D shapes, including cubes and other cuboids, from 2D representations

Please see [Mastery Checkpoint 5.24.31](#) ([Teacher Guide 5.24.31](#)) ([Additional Resource 5.24.31](#))

25 **WAS** Written addition and subtraction; **PRA** Problem solving, reasoning and algebra

Add 5-digit numbers using written column addition; subtract 5-digit numbers using written method (decomposition); check answers to subtractions using written column addition; solve subtractions of 4- and 5-digit numbers using written column subtraction or number line counting up

#### **Mastery Checkpoint**

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Add whole numbers with more than 4 digits, including using formal written methods such as columnar addition
- Subtract whole numbers with more than 4 digits, including using formal written methods such as columnar subtraction

Please see [Mastery Checkpoint 5.25.32](#) ([Teacher Guide 5.25.32](#))

---

## Year 5, Summer Term 2

### **Wk Strands**

26 **MMD** Mental multiplication and division; **PRA** Problem solving, reasoning and algebra; **FRP** Fractions, ratio and proportion

### **Weekly Summary**

Identify factors and multiples, find factor pairs; revise equivalent fractions; compare and order fractions with related denominators; add fractions with same or related denominators, then convert answer into a mixed number; subtract fractions with same and related denominators, revise multiplying fractions by whole numbers

#### **Mastery Checkpoint**

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Compare and order fractions, including mixed numbers, whose denominators are all multiples of the same number
- Add and subtract fractions with the same denominator and denominators that are multiples of the same whole number, including answers more than 1

Please see [Mastery Checkpoint 5.26.33](#) ([Teacher Guide 5.26.33](#))

27 **WMD** Written multiplication and division

Use short division to divide 3-digit numbers by 1-digit numbers and 4-digit numbers by 1-digit numbers, including those which leave a remainder; express a remainder as a fraction; use long multiplication to multiply 3-digit and 4-digit numbers by teens numbers

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context

Please see [Mastery Checkpoint 5.27.34](#) ([Teacher Guide 5.27.34](#))

- Multiply numbers up to 4 digits by a 1- or 2-digit number using a formal written method, including long multiplication for 2-digit numbers

Please see [Mastery Checkpoint 5.27.35](#) ([Teacher Guide 5.27.35](#))

28 **PRA** Problem solving, reasoning and algebra; **MEA** Measurement

Find the area and perimeter of squares and rectangles by calculation and pursue a line of enquiry; estimate and find the area of irregular shapes; calculate the perimeter and area of composite shapes; use the relations of area and perimeter to find unknown lengths; begin to understand the concept of volume; find the volume of a cube or cuboid by counting cubes; understand volume as measurement in three dimensions; relate volume to capacity; recognise and estimate volumes

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Measure and calculate the perimeter of composite rectilinear shapes in cm and m
- Calculate and compare the area of rectangles (including squares), including using standard units, cm<sup>2</sup> and m<sup>2</sup>, and pursue a line of enquiry
- Estimate the area of irregular shapes

Please see [Mastery Checkpoint 5.28.36](#) ([Teacher Guide 5.28.36](#))

- Estimate and begin to find volume and capacity

Please see [Mastery Checkpoint 5.28.37](#) ([Teacher Guide 5.28.37](#))

29 **DPE** Decimals, percentages and their equivalence to fractions; **FRP** Fractions, ratio and proportion; **NPV** Number and place value

Understand what percentages are, relating them to hundredths; know key equivalences between percentages and fractions, finding percentages of amounts of money; find equivalent fractions, decimals and percentages; solve problems involving fraction and percentage equivalents; write dates using Roman numerals

#### **Mastery Checkpoint**

There is one Mastery Checkpoint in this week. It tests the following outcomes from the Progression Map:

- Recognise the per cent symbol (%) and understand that it relates to 'number of parts per hundred'; write percentages as a fraction with denominator 100 and as a decimal
- Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25

Please see [Mastery Checkpoint 5.29.38](#) ([Teacher Guide 5.29.38](#))

30 **NPV** Number and place value; **STA** Statistics; **MEA** Measurement; **WMD** Written multiplication and division; **PRA** Problem solving, reasoning and algebra; **MMD** Mental multiplication and division

Find cubes of numbers to 10; draw and interpret line graphs showing change in temperature over time; begin to understand rate; use timetables using the 24-hour clock and use counting up to find time intervals of several hours and minutes; solve problems involving scaling by simple fractions; use factors to multiply; solve scaling problems involving measure

#### **Mastery Checkpoint**

There are two Mastery Checkpoints in this week. They test the following outcomes from the Progression Map:

- Draw line graphs; solve comparison, sum and difference problems using information presented in a line graph

- Estimate intermediate values on line graphs

Please see [Mastery Checkpoint 5.30.39](#) ([Teacher Guide 5.30.39](#))

- Solve problems (including word problems and problems about measure) involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Please see [Mastery Checkpoint 5.30.40](#) ([Teacher Guide 5.30.40](#))