

#### Westbury Maths Curriculum

At Westbury, we teach maths using a Mastery Approachour planning is informed by the 5 Big Ideas outlined in the diagram. We teach both knowledge and skills through the use of small, manageable steps which allows for strong progression throughout the year and across the age ranges. Although we have mixed aged classes, our Maths curriculum is taught to each year group individually. We take our small steps from the Can Do scheme but adapt and use our own resources alongside, where needed. Our Maths is taught to every year group on a daily basis, with job shares and PPA cover teaching separate topics to allow for continuity within progression and to allow for teachers to pick up on misconceptions taught in previous lessons. Our lesson design follows the same format for Years 1-6 with each lesson having a **Do It**, **Explain It** and **Deepen It** section. This allows for the children to practise the skills taught in the lesson as well as having an opportunity to reason and problem solve.

We teach KIRFS (Key Instant Recall Facts) at the start of



every lesson to practise quick recall of number facts for each year group. This is planned based on the KIRF timetable (see below). In 2022 we begun the programme called **Mastering Number** which is taught to Reception, Year 1 and Year 2. We follow this programme which has a lesson 4 days a week to develop the children's basic number skills such as subitising. For assessment we use the **Remember It tests** from the Can Do programme. These are termly tests which assess the children on what they have been taught and include arithmetic questions as well as reasoning and problem solving. We use these assessments to inform our planning of interventions and to plan for misconceptions in the future as well as to keep a record of progress throughout the year.



#### Westbury Lesson Design

Each part of the lesson design is taught first with the pupils working with the teacher as a year group. The pupils then complete their independent learning, working through the Do It, Explain It and Deepen It.

KIRF

5-10 minutes spent practising quick recall of key facts.

Do It

### What it is, what it is also

a new skill as a manageable step

## **Explain It**

## What it is not

Explaining a misconception, a mistake; orally with the teacher and in writing independently.

### Deepen It

## Apply their learning, problem solving

Word problem or challenge to apply what they have learnt in a deeper, way

# Key Instant Recall Facts (KIRFs)

|       | Preschool   | Reception  | Year 1  | Year 2   | Year 3   | Year 4  | Year 5  | Year 6  |
|-------|---|--|---|--|--|---|---|---|
| Aut 1 | Recognise and recite<br>the number names to<br>5.<br>Touch count to 3.      | Name numbers in order<br>to 10 and compare 2<br>numbers by saying<br>which is more or less.                          | Recite the number<br>names in order to 50<br>and beyond.                          | Recite the number<br>names in order to 100.<br>I know number bonds<br>to 10.<br>I know number bonds<br>to 20.  | I know number bonds<br>for all numbers up to<br>20.<br>Count in 50s and<br>100s.                             | l know number bonds<br>to 100.<br>Count in 25s and<br>1000s.  | I know the<br>multiplication and<br>division facts for all<br>times tables up to<br>12 × 12.                        | I know the<br>multiplication and<br>division facts for all<br>times tables up to<br>12 × 12.              |
| Aut 2 | Recite the number<br>names in order to 5.<br>Touch count to 5.              | Recognise quantities,<br>without counting, up to<br>5. (Subitise)  | I can add 0 or 1 to a<br>number.<br>I can add 2 to a<br>number.                   | I know doubles and<br>halves of numbers to<br>20.<br>I know near doubles<br>to 10.<br>I can use bridging and<br>compensation for<br>addition to 10+10. | Count in 3s.<br>I know the<br>multiplication and<br>division facts for the 3<br>times table. (up to<br>12x3) | Count in 6s.<br>I know the<br>multiplication and<br>division facts for the 6<br>times table. (up to<br>12x6)                              | I can find factor pairs<br>of a number.   | I can identify<br>common factors of a<br>pair of numbers.   |
| Spr 1 | Use the language:<br>before, after, next.                                   | l can say 1 more than a<br>given number up to 10.  | I know number<br>bonds to 10.<br>I know odd and even<br>numbers to 20.            | Count in 2s.<br>I know the<br>multiplication and<br>division facts for the 2<br>times table. (up to<br>12x2)   | Count in 4s.<br>I know the<br>multiplication and<br>division facts for the 4<br>times table. (up to<br>12x4) | Count in 9s and 11s.<br>I know the<br>multiplication and<br>division facts for the 9<br>and 11 times tables.<br>(up to 12x9 and<br>12x11) | I can identify prime<br>numbers up to 20.<br>I can recall square<br>numbers up to 144<br>and their square<br>roots. | I can identify prime<br>numbers up to 50.<br>Know the square<br>roots of square<br>numbers to 15 x 15     |
| Spr 2 | Sort objects and say<br>which group is<br>more/less.<br>Name simple shapes. | Partition numbers to 5<br>into 2 groups.   | Count in 2s to 20.<br>Count in 10s to 100.<br>Count in 5s to 50.                  | Count in 5s and 10s.<br>I know the<br>multiplication and<br>division facts for the<br>10 and 5 times table.<br>(up to 12x10 and<br>12x5)               | Count in 8s.<br>I know the<br>multiplication and<br>division facts for the 8<br>times table. (up to<br>12x8) | Count in 7s and 12s.<br>I know the<br>multiplication and<br>division facts for the 7<br>and 12 times table.<br>(up to 12x7 and<br>12x12)  | Know the decimal<br>and percentage<br>equivalents of the<br>fractions ½, ¼, ¾, ⅓,<br>⅔, tenths and fifths           | Know the decimal<br>and percentage<br>equivalents of the<br>fractions ½, ¼, ¾, ¼,<br>¾, tenths and fifths |
| Sum 1 | Recite number names to 10.  | Recall number bonds of<br>numbers 0-10, including<br>partitioning facts.<br>Know some odd and<br>even numbers to 10. | I can add 10 to a<br>number.  | Count in 3s to 36.   | Count up and down in<br>tenths.<br>I can recognise<br>decimal equivalents<br>of tenths.                      | I can recognise<br>decimal equivalents<br>of the fractions ½, ¼,<br>¾, tenths and<br>hundredths.  | I know decimal<br>number bonds to 1<br>and 10.  | Revisit previous KIRFS  |
| Sum 2 | Recite number names in order to 10.   | Recite number names in<br>order to 20.<br>Automatically recall<br>doubles facts up to 5+5.                           | I know doubles and<br>halves of numbers to<br>10.<br>I know near doubles<br>to 5. | To begin to know the<br>3 times tables. (up to<br>10x3)  | I can multiply and<br>divide 1 digit numbers<br>by 10.   | I can multiply and<br>divide 1 and 2-digit<br>numbers by 10 and<br>100.   | Revisit previous KIRFS  | Revisit previous KIRFS  |

# Sycamore Class Long Term Maths

Years 2 and 3

|                    |      | Year 2   | Mastering                             | Year 2 / 3                     |  | Year 3      |   |  |
|--------------------|------|--|---------------------------------------|--------------------------------|--|-------------|---|--|
|                    |      |  | Number                                |                                | Thursdays / PPA Cover                                  |             |   |  |
|                    |      |  | Year 2                                |                                |  |             |   |  |
| Торіс              | Week | Objective  | Pupils will have                      | Topic                          | Objective  | Topic       | Objective   |  |
| Number             | 1    |  | an opportunity                        | Geometry:                      |  | Number and  |   |  |
| and Place<br>Value |      | Recognise the value of digits in 2-digit numbers       | to consolidate<br>their               | Position and<br>direction (Y2) |  | Place Value | Represent 3-digit numbers                                 |  |
|                    |      | Partition 2-digit numbers in different ways            | and recall of                         | Geometry:                      |  |             | Recognise the value of digits in 3-<br>digit numbers      |  |
|                    |      |  | number bonds<br>within 10; they       | properties of<br>shapes        | Y2 -Use mathematical language to<br>describe position  |             |   |  |
|                    |      |  | will re-cap the composition of        | (angles) (Y3)                  | Y3 - Understand that angle is a<br>description of turn |             |   |  |
|                    |      | Read 2-digit numbers in words and write using numerals | the<br>numbers 11 to<br>20 and reason |                                |  |             | Partition 3-digit numbers in<br>different ways            |  |
|                    | 2    | Read 2-digit numbers in numerals and write in words    | about their                           |                                |  |             | Read 3-digit numbers in words<br>and write using numerals |  |
|                    |      | Identify 2-digit numbers on a number line              | within the                            |                                |  |             | Read 3-digit numbers in numerals and write in words       |  |
|                    |      | Represent 2-digit numbers on a number                  | system                                |                                |  |             | Read 3-digit numbers in words                             |  |
|                    |      | line   | Pupils will:                          |                                |  |             | and write using numerals                                  |  |
|                    |      |  | <ul> <li>review the</li> </ul>        |                                |  |             | including zero as a place holder                          |  |
|                    |      |  | composition of                        |                                | 12 -Ose mathematical language to                       |             |   |  |
|                    |      |  | the numbers 6                         |                                | meaning of clockwise and anti-clockwise                |             |   |  |
|                    |      |  | to 9 as '5 and a                      |                                | Y3 - Understand that angles are a feature              |             |   |  |
|                    |      |  |                                       |                                | of shape   |             |   |  |
|                    |      | Estimate numbers on a number line                      | numbers using                         |                                |  |             | Read 3-digit numbers in numerals                          |  |
|                    |      |  | the language of                       |                                |  |             | and write in words, including zero                        |  |
|                    |      |  | comparison and                        |                                |  |             | as a place holder   |  |
|                    | 3    | Compare any two 2-digit numbers using < > and =        | use the symbols<br><>=                |                                |  |             | Identify 3-digit numbers on a<br>number line              |  |
|                    |      | Order 2-digit numbers with different                   | <ul> <li>review the</li> </ul>        |                                |  |             | Represent 3-digit numbers on a                            |  |
|                    |      | tens from smallest to greatest                         | structure of                          |                                |  |             | number line   |  |
|                    |      | Order 2-digit numbers with the same                    | even numbers                          |                                |  |             | Count in steps of 50 and 100                              |  |
|                    |      | tens from smallest to greatest                         | (including                            |                                |  |             | trom zero   |  |
|                    |      |  | exploring how                         |                                | Y2 - Understand and use the language of                |             |   |  |
|                    |      |  | even numbers                          |                                | right angles to describe the size of turn              |             |   |  |
|                    |      |  |                                       |                                | turn   |             |   |  |

|            |   | Order 2-digit numbers                   | can be                 |               |  | Count up in steps of 10 from any |
|------------|---|---|------------------------|---------------|--|----------------------------------|
|            |   |   | composed of            |               |  | 2 or 3-digit number              |
|            | 4 | Find 10 more than a given number        | two odd parts          |               |  | Count back in steps of 10 from   |
|            |   |   | or two                 |               |  | any 3-digit number               |
|            |   | Find 10 less than a given number        | even parts) and        |               |  | Count up in steps of 100 from    |
|            |   |   | the composition        |               |  | any 2 or 3-digit number          |
| Geometry:  |   | Identify and describe the properties of | of each                |               |  | Count back in steps of 100 from  |
| Properties |   | pentagons                               | of 6, 8 and 10         |               |  | any 3-digit number               |
| of shapes  |   |   | • review the           |               | Y2 - Interpret and devise instructions for |                                  |
|            |   |   | structure of odd       |               | following a simple route                   |                                  |
|            |   |   | numbers                |               | Y3 - Identify when a shape has a right     |                                  |
|            |   |   | (including             |               | angle                                      |                                  |
|            |   | Identify and describe the properties of | exploring how          |               |  | Find 10 more than a given        |
|            |   | hexagons                                | odd numbers            |               |  | number                           |
|            | 5 | Identify and describe the properties of | can be                 |               |  | Find 10 less than a given number |
|            |   | octagons                                | composed of            |               |  |                                  |
|            |   | Identify symmetry properties of 2-D     | one odd part           |               |  | Find 100 more than a given       |
|            |   | shapes using vertical lines             | and                    |               |  | number                           |
|            |   | Identify and describe the properties of | one even part)         |               |  | Find 100 less than a given       |
|            |   | 3-D shapes including the number of      | and the                |               |  | number                           |
|            |   | vertices                                | composition of         |               |  |                                  |
|            |   |   | each of 7 and 9        |               | Y2 - Order combinations of mathematical    |                                  |
|            |   |   | consolidate            |               | objects in patterns and sequences          |                                  |
|            |   |   | their                  |               | Y3 - Recognise that 2 right angles make a  |                                  |
|            |   |   | understanding          |               | half-turn, 3 make three-quarters of a      |                                  |
|            |   |   | of the numbers         |               | turn and 4 a complete turn                 |                                  |
|            |   | Identify and describe the properties of | 10 and 20 as 10        |               |  | Compare any two 3-digit          |
|            |   | 3-D shapes including the number of      | and a bit              |               |  | numbers                          |
|            |   | edges                                   | consolidate     thesin |               |  |                                  |
|            | 6 | Identify and describe the properties of | their                  | Measurement   |  | Order 3-digit numbers with       |
|            |   | 3-D shapes including the number of      | understanding          | : money (Y2)  |  | different hundreds               |
|            |   | faces                                   | of the linear          |               |  |                                  |
| Addition   |   | Show that addition is commutative       | number system          | Geometry:     |  | Order 3-digit numbers with the   |
| and        |   |   | to 20 and              | properties of |  | same hundreds                    |
| subtractio |   | Recall and use addition facts of two    | midnoints              | shapes        |  | Order 3-digit numbers            |
| n:         |   | single digits bridging 10               | mupomus                | (angles) (Y3) |  |                                  |
| addition   |   |   |                        |               | Y2 -Combine £1, £2, £5 and £10 use the     |                                  |
|            |   |   |                        |               | symbol for pounds (£)                      |                                  |
|            |   |   |                        |               | Y3 – Identify angles that are less than or |                                  |
|            |   |   |                        |               | greater than a right angle                 |                                  |
|            |   |   |                        |               |  |                                  |
|            |   | Recall and use addition facts of single | 1                      |               |  | Find tenths of whole numbers     |
|            |   | digit doubles                           |                        |               |  | and express as fractions and     |
|            |   |   |                        |               |  | decimals                         |

|                               | 7  | Use addition facts of 10 to derive facts<br>of 100   | Measurement<br>: money (Y2) |  |                             | Count up in tenths and position them on a number line                         |
|-------------------------------|----|--|-----------------------------|--|-----------------------------|---|
|                               |    | Add ones to 2-digit numbers using<br>number facts where the tens don't<br>change                       | Measurement<br>: money (Y3) |  |                             | Count down in tenths and position them on a number line                       |
|                               |    | Add ones to 2-digit numbers using bridging   |                             |  | Geometry :<br>properties of | Identify and draw horizontal lines  |
|                               |    |  |                             | Y2 - Find the sum of different amounts of<br>pounds<br>Y3 - Use combinations of coins to make<br>amounts beyond £1   | shapes                      |   |
|                               |    | Add ones to 2-digit numbers by rounding<br>to ten then compensating                                    |                             |  |                             | Identify and draw vertical lines  |
|                               | 8  | Add multiples of ten to 2-digit numbers<br>using number facts  |                             |  |                             | Identify and draw parallel lines  |
|                               |    | Add two 2-digit numbers by counting on<br>in tens then 1s  |                             |  |                             | Identify and draw perpendicular<br>lines                                      |
|                               |    | Add two 2-digit numbers using<br>partitioning and recombining (No<br>regrouping)                       |                             |  |                             | Draw common 2D shapes   |
|                               |    |  |                             | Y2 - Combine 1p, 2p and 5p coins to<br>make different totals<br>Y3 - Add amounts in pence expressing<br>the answer using £ and p (regrouping in<br>the tens) |                             |   |
|                               |    | Add two 2-digit numbers using<br>partitioning and recombining  |                             |  | Geometry :<br>properties of | Name and describe 3D shapes   |
|                               | 9  | Add two 2-digit numbers by rounding to the nearest ten then compensating                               |                             |  | shapes                      | Make 3D shapes using modelling materials                                      |
|                               |    | Add two 2-digit numbers choosing an<br>efficient strategy  |                             |  | Multiplication<br>Tables    | Build the 3x table  |
|                               |    | Add three single digit numbers   |                             |  |                             | Recall and use multiplication<br>facts for the 3 times table                  |
| Addition<br>and<br>subtractio |    |  |                             | Y2 - Combine 10p, 20p and 50p coins to<br>make different totals<br>Y3 - Add amounts in pounds and pence  |                             |   |
| n :<br><b>subtractio</b>      |    | Understand why subtraction is not<br>commutative   |                             |  |                             | Recall and use division facts for<br>the 3 times table                        |
| n                             | 10 | Recall subtraction facts of two single<br>digits within 10   |                             |  |                             | Build the 4x table and count in<br>steps of 4 and multiples of 4 from<br>zero |
|                               |    | Recall subtraction facts of 2-digit<br>numbers (20 or less) subtract a single<br>digit not bridging 10 |                             |  |                             | Recall and use multiplication facts for the 4 times table                     |

|                             |    | Recall subtraction facts of 2-digit numbers (20 or less) subtract a single              |   |  |                                     | Recall and<br>the                   |
|-----------------------------|----|---|---|--|-------------------------------------|-------------------------------------|
|                             |    | digit bridging 10   |   | Y2 - Find the sum of different amounts of  |                                     |                                     |
|                             |    |   |   | pence<br>Y3 - Subtract pence from £2   |                                     |                                     |
|                             |    | Use subtraction facts of 10 to subtract<br>multiples of ten from 100                    |   | Y3 -   |                                     | Build the<br>steps of 8 a           |
|                             | 11 | Subtract ones from 2-digit numbers<br>using number facts where the tens don't<br>change |   |  |                                     | Recall ar<br>facts fo               |
|                             |    | Subtract ones from 2-digit numbers<br>using bridging                                    | - |  |                                     | Recall an                           |
|                             |    | rounding to ten then compensating   |   |  |                                     | th                                  |
|                             |    |   |   | Y2 - Find different combinations of coins<br>that equal the same amounts of money<br>Y3 - Subtract pence from £5 | Add/ subtract:<br>mental<br>methods | Add ones<br>using nu<br>tei         |
|                             |    | Subtract multiples of ten from 2-digit<br>numbers using number facts                    |   |  |                                     | Add ones t                          |
|                             | 12 | Subtract two 2-digit numbers by counting back in tens then 1 s                          |   |  |                                     | Add ones t<br>by rou                |
|                             |    | Subtract two 2-digit numbers by<br>rounding to the nearest ten then<br>compensating     |   |  |                                     | Add tens t<br>using nur<br>hundi    |
|                             |    | Subtract by finding the difference between two numbers - counting on                    |   |  |                                     | Add tens t<br>ເ                     |
|                             |    |   |   | Y2 - Calculate change from 50p<br>Y3 - Subtract pounds and pence from £5   |                                     |                                     |
|                             |    | Derive addition and subtraction facts<br>using inverse operations                       |   |  |                                     | Add hun<br>numbers                  |
| Geometry<br>:<br>properties | 13 | Identify and describe the properties of cylinders                                       |   |  |                                     | Add 99 to<br>using rou<br>hundred a |
| of shapes                   |    | Identify and describe the properties of cones   |   |  |                                     | Add two<br>rounding t<br>and th     |
|                             |    | Identify and describe 2-D shapes on the surface of 3-D shapes                           |   |  |                                     | Add two<br>partitioning             |
|                             |    |   |   | Y2 – Calculate change from £1  |                                     | r                                   |

|             |    |  |                | Y3 - Subtract pounds and pence from £10    |           |                                    |
|-------------|----|--|----------------|--|-----------|------------------------------------|
|             |    | Compare and sort 3-D shapes and            |                |  |           | Add two 2-digit numbers where      |
|             |    | explain how they are similar or different  |                |  |           | the sum exceeds 100, choosing      |
|             |    |  |                |  |           | an efficient mental strategy       |
|             | 14 | Compare and sort 2-D shapes and            | Measurement    |  |           | Subtract ones from three-digit     |
|             |    | explain how they are similar or different  | : Time (Y2)    |  |           | numbers using number facts         |
|             |    |  | then           |  |           | where the tens don't change        |
| Multiplicat |    | Count in steps of 3 from zero              | Measurement    |  |           | Subtract ones from three-digit     |
| ion and     |    |  | : Capacity and |  |           | numbers using bridging             |
| division    |    | Show and use the connection between        | temperature    |  |           | Subtract ones from three-digit     |
|             |    | multiplication and repeated addition       | Measurement    |  |           | numbers by rounding to ten then    |
|             |    |  | : money (Y3)   |  |           | compensating                       |
|             |    |  | then           | Y2 - Tell the time using quarter past the  |           |                                    |
|             |    |  | measurement    | hour on an analogue clock                  |           |                                    |
|             |    |  | : time (Y3)    | Y3 - Calculate change beyond £1            |           |                                    |
|             |    | Create multiplication statements to        |                |  |           | Subtract tens from three-digit     |
|             |    | describe and solve equal grouping          |                |  |           | numbers using number facts         |
|             |    | problems                                   |                |  |           | where the hundreds don't           |
|             |    |  |                |  |           | change                             |
|             | 15 | Use arrays to solve multiplication         |                |  |           | Subtract tens from three-digit     |
|             |    | problems                                   |                |  |           | numbers using bridging             |
|             |    | Show and use the commutativity of          |                |  |           | Subtract hundreds from three-      |
|             |    | multiplication                             | -              |  |           | digit numbers using number facts   |
|             |    | Create division statements to describe     |                |  |           | Subtract from three-digit          |
|             |    | and solve grouping problems                |                |  |           | numbers using rounding and         |
|             |    |  | _              |  |           | compensating                       |
|             |    |  |                | Y2 - Tell the time using quarter to the    |           |                                    |
|             |    |  |                | hour on an analogue clock                  |           |                                    |
|             |    |  |                | Y3 - Know the number of days in each       |           |                                    |
|             |    |  | -              | month, year and leap year                  |           |                                    |
|             |    | Create division statements to describe     |                |  |           | Subtract two 3-digit numbers       |
|             |    | sharing and solve problems                 | -              |  |           | using partitioning no exchanging   |
|             | 16 | Show that division is not commutative      |                |  |           | Subtract by finding the difference |
|             |    |  |                |  |           | between two 3-digit numbers        |
|             |    |  | -              |  |           | with the same hundreds digits      |
| Tables      |    | Build the 2x table and count in steps of 2 |                |  |           | Subtract by finding the difference |
|             |    | from zero                                  |                |  |           | between two numbers with           |
|             |    |  |                |  |           | different hundreds digit           |
|             |    | Recall and use multiplication facts for    |                |  | Fractions | Recognise and represent unit       |
|             |    | the 2 times table                          | 4              | V2 Draw the band                           |           | Tractions                          |
|             |    |  |                | YZ - Draw the hands on a clock to show     |           |                                    |
|             |    |  |                | quarter past/to the nour on an analogue    |           |                                    |
|             |    |  |                | CIUCK                                      |           |                                    |
|             |    |  |                | rs - rell the time to one minute intervals |           |                                    |
| 1           | 1  |  | 1              | past the nour on an analogue clock         |           |                                    |

| 17       Recognise and use odd and even numbers       Compare two proper fracting which have the same denominator         Build the 10x table and count in steps of 10 from zero       Build the 10x table and count in steps of 10 from zero       Order a set of proper fracting which have the same denominator         Recall and use multiplication facts for the 10 times table       Y2 - Know and use the fact that there are 60 minutes in 1 hour Y3 - Draw the hands on a clock to show one minute intervals past the hour on an analogue clock       Order a set of unit fraction         Recall and use division facts for the 10 times table       Y2 - Know and use the fact that there are 60 minutes in 1 hour Y3 - Draw the hands on a clock to show one minute intervals past the hour on an analogue clock       Order a set of unit fraction | on-          |
|--|--------------|
| Build the 10x table and count in steps of<br>10 from zero       Order a set of proper fraction<br>which have the same<br>denominator         Recall and use multiplication facts for<br>the 10 times table       Y2 - Know and use the fact that there are<br>60 minutes in 1 hour         Y3 - Draw the hands on a clock to show<br>one minute intervals past the hour on an<br>analogue clock       Order a set of unit fraction         Recall and use division facts for the 10<br>times table       Order a set of unit fraction  | ons          |
| Recall and use multiplication facts for<br>the 10 times table       Compare two unit fraction         Y2 - Know and use the fact that there are<br>60 minutes in 1 hour<br>Y3 - Draw the hands on a clock to show<br>one minute intervals past the hour on an<br>analogue clock       Compare two unit fraction         Recall and use division facts for the 10<br>times table       Order a set of unit fraction   | ons          |
| Recall and use division facts for the 10 times table       Y2 - Know and use the fact that there are 60 minutes in 1 hour         Y3 - Draw the hands on a clock to show one minute intervals past the hour on an analogue clock       Order a set of unit fraction  | าร           |
| Recall and use division facts for the 10 times table     Order a set of unit fraction  |              |
| 10 Divid the Suteble and equation store of S   | าร           |
| 18 Build the SX table and count in steps of 5<br>from zero which have the same numer<br>>1 (small denominator  | ons<br>ator  |
| Recall and use multiplication facts for       Order a set of proper fraction         the 5 times table       which have the same numer         >1 (small denominator)  | ons<br>ator  |
| Recall and use multiplication facts for       Recognise and show equival         the 5 times table       proper fractions (denominat         multiples of each other)       multiples of each other)   | lent<br>tors |
| Y2 - Tell the time to five minute intervals Addition and   |              |
| past the hour on an analogue clock subtraction:  |              |
| Y3 - Tell the time to one minute intervals written   |              |
| Recall and use multiplication facts for Use column addition f  | or           |
| the 5 times table two 3-digit numbers when   |              |
| regrouping is required in the ones column  |              |
| Fractions 19 Recognise one third as one of three Use column addition for two   | o 3-         |
| equal parts of a shape and use fraction digit numbers when regroupi  | ing is       |
| notation required in the tens column addition for two  | in<br>2      |
| digit numbers when regroupi  | o-<br>ing is |
| required in multiple columns   | 0.2          |
| Find 1/3 of an amount Use column addition for 3-d  | ligit        |
| and 2-digit numbers when   | n            |
| regrouping is required in the ones column  | ne           |

|            |    |   |  | Y2 - Draw the hands on a clock to show      |   |
|------------|----|---|--|---|---|
|            |    |   |  | five minute intervals past the hour on an   |   |
|            |    |   |  | analogue clock                              |   |
|            |    |   |  | V3- Draw the hands on a clock to show       |   |
|            |    |   |  | and minute intervals to the hour on an      |   |
|            |    |   |  | one minute intervals to the nour on an      |   |
|            |    | Descention to a sector of form            |  | analogue clock                              | Line as house a delition for 2 shots      |
|            |    | Recognise two quarters as two of four     |  |   | Use column addition for 3-digit           |
|            |    | equal parts, or two of one quarter of a   |  |   | and 2-digit numbers when                  |
|            |    | shape and use fraction notation           |  |   | regrouping is required in the tens column |
|            | 20 | Find 2/4 of objects                       |  |   | Use column addition for 3-digit           |
|            |    |   |  |   | and 2-digit numbers when                  |
|            |    |   |  |   | regrouping is required in multiple        |
|            |    |   |  |   | columns                                   |
|            |    | Find 2/4 of an amount                     |  |   | Choose efficient methods to add           |
|            |    |   |  |   | numbers with up to 3-digits               |
|            |    | Recognise that a half is equivalent to    |  |   | Use column subtraction for 3-             |
|            |    | two guarters                              |  |   | digit numbers when exchanging             |
|            |    |   |  |   | is required in the tens column            |
|            |    |   |  | Y2 - Tell the time to five minute intervals |   |
|            |    |   |  | to the hour on an analogue clock            |   |
|            |    |   |  | Y3 - Read analogue time and record using    |   |
|            |    |   |  | digital format                              |   |
|            |    | Recognise three quarters as three of      |  |   | Use column subtraction for 3-             |
|            |    | four equal parts, or three of one quarter |  |   | digit numbers when exchanging             |
|            |    | of a shape and use fraction notation      |  |   | is required in the hundreds               |
|            |    | of a shape and use fraction notation      |  |   | column                                    |
|            | 21 | Find 2/4 of objects                       |  |   | Lise column subtraction for 2             |
|            | 21 |   |  |   | digit numbers when exchanging             |
|            |    |   |  |   | is required in multiple columns           |
|            |    | Find 2/4 of an amount                     |  |   | Is required in multiple columns           |
|            |    | Fillu 5/4 of all allount                  |  |   | disit and 2 disit such as when            |
|            |    |   |  |   | aight and 2-aight numbers when            |
|            |    |   |  |   | exchanging is required in the tens        |
| Chatietier |    |   |  |   |   |
| Statistics |    | interpret à table                         |  |   | Use column subtraction for 3-             |
|            |    |   |  |   | uigit and 2-digit numbers when            |
|            |    |   |  |   | exchanging is required in the             |
|            |    |   |  |   | nunareas column                           |
|            |    |   |  | $Y_2$ - Draw the hands on a clock to show   |   |
|            |    |   |  | Tive minute intervals to the hour on an     |   |
|            |    |   |  | analogue clock                              |   |
|            |    |   |  | Y3 -Read digital time and write using 'to'  |   |
|            |    |   |  | and 'past'                                  |   |
|            |    | Construct a tally chart                   |  |   | Use column subtraction for 3-             |
|            |    |   |  |   | digit and 2-digit numbers when            |

|            |    |  |   |  |                | exchanging is required in multiple  |
|------------|----|--|---|--|----------------|-------------------------------------|
|            | 22 | Interpret a nictogram where the symbol     | - |  |                | Choose efficient methods to         |
|            | 22 | represents a single item                   |   |  |                | subtract numbers with up to 3-      |
|            |    | represents a single item                   |   |  |                | digits                              |
|            |    | Construct a pictogram where the            | - |  | Multiplication | Multiply 2-digit numbers by 10      |
|            |    | symbol represents a single item            |   |  | and division   | using place value                   |
|            |    | Interpret a pictogram where the symbol     |   |  |                | Multiply 1-digit numbers by         |
|            |    | represents 2 items                         |   |  |                | multiples of 10 using place value   |
|            |    | •  |   | Y2 - Order or sequence intervals of time,  |                |                                     |
|            |    |  |   | including the fact that there are 24 hours |                |                                     |
|            |    |  |   | in one day                                 |                |                                     |
|            |    |  |   | Y3 - Sequence events using a.m. and p.m.   |                |                                     |
|            |    | Construct a pictogram where the symbol     |   |  |                | Use the distributive law to         |
|            |    | represents 2 items                         |   |  |                | multiply a teens number by a        |
|            |    |  |   |  |                | one-digit number                    |
|            | 23 | Interpret a pictogram where the symbol     |   |  |                | Use the distributive law to         |
|            |    | represents 5 or 10 item                    |   |  |                | multiply a two-digit number by a    |
|            |    |  | - |  | -              | one-digit number                    |
|            |    | Construct a pictogram where the symbol     |   |  |                | Multiply 2-digit numbers by a 1-    |
|            |    | represents 5 or 10 items                   |   |  |                | digit number using a formal         |
|            |    |  |   |  |                | written method (regroup ones)       |
|            |    | Interpret a block diagram                  |   |  |                | Multiply 2-digit numbers by a 1-    |
|            |    |  |   |  |                | digit number using a formal         |
|            |    |  | - |  | -              | written method (regroup tens)       |
|            |    |  |   | Y2 - Measure capacity using litres         |                |                                     |
|            |    |  |   | Y3 - Compare times given in seconds,       |                |                                     |
|            |    | Construct a black dia man                  |   | minutes and/or hours                       |                |                                     |
|            |    | Construct a block diagram                  |   |  |                | Multiply 2-digit numbers by a 1-    |
|            |    |  |   |  |                | digit number using a formal         |
| Moscurom   | 24 | Bood scales in divisions of ones and twos  | - |  | -              | Use officient methods to multiply   |
| ivieasurem | 24 | Read scales in divisions of ones and twos  |   |  |                | a two digit number by a one digit   |
| length and |    |  |   |  |                | number                              |
| mass       |    | Read scales in divisions of fives and tens | - |  | -              | Divide near multiples by 2, 3, 4, 5 |
| mass       |    | Read Scales in divisions of fives and tens |   |  |                | 8 10 with remainders                |
|            |    | Measure the mass of objects (kg)           | - |  | -              | Divide a 3-digit multiple of ten by |
|            |    |  |   |  |                | 10 using place value                |
|            |    |  | 1 | Y2 - Measure capacity using millilitres    | 1              |                                     |
|            |    |  |   | Y3 - Compare times given in seconds.       |                |                                     |
|            |    |  |   | minutes and/or hours                       |                |                                     |
|            |    | Measure the mass of objects (g)            | 1 |  | 1              | Use known facts and place value     |
|            |    | ,  |   |  |                | when dividing mentally by 2, 3, 4,  |
|            |    |  |   |  |                | 5, and 8 e.g. 120 ÷ 4               |

| 25 | Estimate the mass of objects                    |               |  |                | Use partitioning to divide by a<br>single digit number where the<br>quotient is a teens number |
|----|---|---------------|--|----------------|--|
|    | Compare the mass of objects using >, <<br>and = |               |  |                | Use multiplication or division to<br>solve scaling or correspondence<br>problem                |
|    | Order the mass of objects                       |               |  | Fractions      | Find unit fractions of a number of objects   |
|    |   |               | Y2 - Estimate capacity using litres<br>Y3 - Calculate the duration of events<br>more than one hour                   |                |  |
|    | Measure lengths (m                              |               |  |                | Find unit fractions of an amount   |
| 26 | Measure lengths (cm)                            |               |  |                | Find non-unit fractions of a<br>number of objects  |
|    | Estimate lengths                                |               |  |                | Find non-unit fractions of an amount   |
|    | Compare lengths using >, < and =                |               |  |                | Add fractions with the same denominator within one whole                                       |
|    |   | Statistics Y3 | Y2 - Estimate capacity using millilitres<br>Y3 - Interpret a pictogram where the<br>symbol represents multiple items |                |  |
|    | Compare lengths using >, < and =                |               |  |                | Subtract fractions with the same denominator within one whole                                  |
| 27 | Measure heights (cm)                            |               |  |                | Read Roman numerals up to XII  |
|    | Estimate heights                                |               |  |                | Know the number of seconds in a minute and multiple minutes                                    |
|    | Compare heights using >, < and =                |               |  | Measurement    | Use a ruler to measure lengths in  |
|    |   |               |  | : length, mass | millimetres  |
|    |   |               |  | and capacity   |  |
|    |   |               | Y2 - Compare capacity, > and <   |                |  |
|    |   |               | Y3 - Construct a pictogram where the<br>symbol represents multiple items   |                |  |
|    |   |               |  |                | Compare the length of two object   |
| 28 |   |               |  |                | Order lengths  |
|    |   |               |  |                | Add lengths  |
|    |   |               |  |                | Subtract lengths   |
|    |   |               | Y2 - Order capacities<br>Y3 - Interpret a bar char<br>Construct a bar char   |                |  |
|    |   |               |  |                | Find the perimeter of a 2-D shapes by measuring  |
| 29 |   |               |  |                | Measure mass   |
|    |   |               |  | 1              | Compare mass   |
|    |   |               |  | 1              | Order mass   |
|    |   |               |  |                |  |

|    |  | Y2 – Measure temperature       |                             |
|----|--|--------------------------------|-----------------------------|
|    |  | Y3 - Interpret data in a table |                             |
|    |  | Create a table to show data    |                             |
|    |  |                                | Add and subtract mass       |
| 30 |  |                                | Measure capacity            |
|    |  |                                | Compare capacity            |
|    |  |                                | Add and subtract capacities |
|    |  |                                |                             |
|    |  |                                | Use scaling with measures   |
| 31 |  |                                | Add and subtract mass       |
|    |  |                                | Measure capacity            |
|    |  |                                | Compare capacity            |
|    |  |                                |                             |
|    |  |                                | Add and subtract capacities |
| 32 |  |                                | Use scaling with measures   |
|    |  |                                |                             |
|    |  |                                |                             |
|    |  |                                |                             |
|    |  |                                |                             |