**SANDBROOK SMATHS LONG TERM ASSESSMENT PLAN YEAR 5/6 MASTERY STANDARD**

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| **LEARNING CYCLE** | **BOOK 5 CHAPTER** | **RELATED AM BULLET POINT** | **INTERIM TEACHER FRAMEWORK**  **(MASTERY)** | **MODERATION PAGE NOs.**  **(YR 6 CHN)** | **EXPECTED BULLET POINT COMPLETION** | **AM ASSESSMENT MILESTONE** |
| **1** | **Numbers to 1 000 000** | 6.1. Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. Round any whole number to a required degree of accuracy. |  |  | **6.1** |  |
| **Whole Numbers: Addition and Subtraction** | 6.6. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |  |  |  |
| 6.5. Use their knowledge of the order of operations to carry out calculations involving the four operations. |  |  |  | 6B  A cumulative total of at least 1 bullet point |
| **2** | **Whole Numbers: Multiplication and Division** | 6.3. Multiply and divide numbers up to 4 digits by a 2-digit whole number using the formal written methods and interpret remainders as whole number remainders, fractions, or by rounding. |  |  | **6.3** |  |
| 6.4. Identify common factors, common multiples and prime numbers. |  |  | **6.4** |
| 6.5. Use their knowledge of the order of operations to carry out calculations involving the four operations. |  |  |  |
| **Whole Numbers: Word Problems** | 6.5. Use their knowledge of the order of operations to carry out calculations involving the four operations. |  |  | **6.5** |
| 6.6. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. |  |  | **6.6** |
| **Graphs** | 6.29. Interpret and construct line graphs and use these to solve problems. |  |  | **6.29** | 6B  A cumulative total of at least 6 bullet points |
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| **3** | **Fractions** | 6.7. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. |  |  | **6.7** |  |
| 6.8. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. |  |  | **6.8** |
| **Fractions** | 6.9. Multiply simple proper fractions and simplify the answer (e.g. ¼ x ⅟₂ = ⅟₈). Divide proper fractions by whole numbers (e.g. ⅓ ÷ 2 = ⅙). |  |  | **6.9** |
| 6.14. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. |  |  |  |
| **Decimals** | 6.12. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |  |  |  | 6D  A cumulative total of at least 9 bullet points |
| **4** | **Percentages** | 6.12. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. |  |  | **6.12** |  |
| 6.13. Solve problems involving the calculation of percentages (e.g. of measures) such as 15% of 360 and the use of percentages for comparison. |  |  | **6.13** |
| **Geometry** | 6.14. Solve problems involving similar shapes where the scale factor is known or can be found |  |  |  |
| 6.24. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. |  |  | **6.24** |
| 6.26. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. |  |  | **6.26** | 6D  A cumulative total of at least13 bullet points |
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| **5** | **Position and Movement** | 6.28. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. |  |  | **6.28** |  |
| **Measurements** | 6.18. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. |  |  |  |
| 6.19. Use, read, write & convert between standard units of measure, converting length, mass, volume & time from smaller to larger units, and vice versa, using decimal notation to up to 3 dec places. |  |  |  | 6D  A cumulative total of at least 14 bullet points |
| **6** | **Area and Perimeter** | 6.20. Recognise that shapes with the same areas can have different perimeters and vice versa. |  |  | **6.20** |  |
| 6.14. Solve problems involving similar shapes where the scale factor is known or can be found |  |  | **6.14** |
| 6.21. Calculate the area of parallelograms and triangles. Recognise when it is possible to use formulae for area and volume of shapes. |  |  | **6.21** |
| **Volume** | 6.18. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. |  |  | **6.18** |
| 6.19. Use, read, write & convert between standard units of measure, converting length, mass, volume & time from smaller to larger units, and vice versa, using decimal notation to up to 3 dec places. |  |  | **6.19** |
| **Roman Numerals** |  |  |  |  | 6S  A cumulative total of at least 19 bullet points |
| **N/A** | | 6.2. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above. |  | |  | |
| 6.10. Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places. |  | |  | |
| 6.11. Multiply one-digit numbers with up to two decimal places by whole numbers. Use written division methods in cases where the answer has up to two decimal places. |  | |  | |
| 6.15. Express missing number problems algebraically. Use simple formulae expressed in words. |  | |  | |
| 6.16. Generate and describe linear number sequences. |  | |  | |
| 6.17. Find pairs of numbers that satisfy number sentences involving two unknowns. Enumerate all possibilities of combinations of two variables. |  | |  | |
| 6.22. Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm2) and cubic metres (m3), and extending to other units. |  | |  | |
| 6.23. Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets. |  | |  | |
| 6.25. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. |  | |  | |
| 6.27. Describe positions on the full coordinate grid (all four quadrants). |  | |  | |
| 6.29. Interpret and construct pie charts AND use these to solve problems. |  | |  | |
| 6.30. Calculate and interpret the mean as an average. |  | |  | |