

# Assessment Criteria

# Mathematics Stage 4

| Name:              |  | Class:                | Year: | Aut 1                | Aut 2 | Spr 1                 | Spr 2 | Sum 1 | Sum 2 |
|--------------------|--|-----------------------|-------|----------------------|-------|-----------------------|-------|-------|-------|
| Start score:       | Target Score:  | End Score:            |       |                      |       |                       |       |       |       |
| Place Value        | 1. Count in multiples of 6, 7, 9, 25 and 1000.   |                       |       |                      |       |                       |       |       |       |
|                    | 2. Find 1000 more or less than a given number. Round any number to the nearest 10, 100 or 1000.  |                       |       |                      |       |                       |       |       |       |
|                    | 3. Count backwards through zero to include negative numbers.   |                       |       |                      |       |                       |       |       |       |
|                    | 4. Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens, and ones). Order and compare numbers beyond 1000.   |                       |       |                      |       |                       |       |       |       |
|                    | 5. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.   |                       |       |                      |       |                       |       |       |       |
| Add and Sub        | 6. Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.   |                       |       |                      |       |                       |       |       |       |
|                    | 7. Estimate and use inverse operations to check answers to a calculation.  |                       |       |                      |       |                       |       |       |       |
|                    | 8. Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.   |                       |       |                      |       |                       |       |       |       |
| Mult and Divide    | 9. Recall multiplication and division facts for multiplication tables up to $12 \times 12$ .   |                       |       |                      |       |                       |       |       |       |
|                    | 10. Recognise and use factor pairs and commutativity in mental calculations.   |                       |       |                      |       |                       |       |       |       |
|                    | 11. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.  |                       |       |                      |       |                       |       |       |       |
|                    | 12. Solve probs involving $\times$ and $+$ , inc. using the distributive law to mult 2 digit nos by 1 digit, integer scaling probs and harder correspondence probs such as n objects are connected to m objects. |                       |       |                      |       |                       |       |       |       |
| Fractions          | 13. Recognise and show, using diagrams, families of common equivalent fractions.   |                       |       |                      |       |                       |       |       |       |
|                    | 14. Count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten.  |                       |       |                      |       |                       |       |       |       |
|                    | 15. Add and subtract fractions with the same denominator.  |                       |       |                      |       |                       |       |       |       |
|                    | 16. Recognise and write decimal equivalents of any number of tenths or hundredths; and the decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ and three quarters.  |                       |       |                      |       |                       |       |       |       |
|                    | 17. Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.  |                       |       |                      |       |                       |       |       |       |
|                    | 18. Round decimals with one decimal place to the nearest whole number. Solve simple measure and money problems involving fractions and decimals to 2 decimal places.   |                       |       |                      |       |                       |       |       |       |
| MEASURE            | 19. Convert between different units of measure (e.g. kilometre to metre). Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days).                        |                       |       |                      |       |                       |       |       |       |
|                    | 20. Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres. Find the area of rectilinear shapes by counting squares.  |                       |       |                      |       |                       |       |       |       |
|                    | 21. Estimate, compare and calculate different measures, including money in pounds and pence.   |                       |       |                      |       |                       |       |       |       |
|                    | 22. Read, write and convert time between analogue and digital 12 and 24-hour clocks.   |                       |       |                      |       |                       |       |       |       |
| GEOMETRY           | 23. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.  |                       |       |                      |       |                       |       |       |       |
|                    | 24. Identify acute and obtuse angles and compare and order angles up to two right angles by size.  |                       |       |                      |       |                       |       |       |       |
|                    | 25. Identify lines of symmetry in 2-D shapes presented in different orientations.  |                       |       |                      |       |                       |       |       |       |
|                    | 26. Complete a simple symmetric figure with respect to a specific line of symmetry.  |                       |       |                      |       |                       |       |       |       |
|                    | 27. Describe positions on a 2-D grid as coordinates in the first quadrant. Describe movements between positions as translations of a given unit to the left/right and up/down.                                   |                       |       |                      |       |                       |       |       |       |
|                    | 28. Plot specified points and draw sides to complete a given polygon.  |                       |       |                      |       |                       |       |       |       |
| STATS              | 29. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.  |                       |       |                      |       |                       |       |       |       |
|                    | 30. Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.  |                       |       |                      |       |                       |       |       |       |
| 1-8: St 4 Emerging |  | 9-16: St 4 Developing |       | 17-24: St 4 Securing |       | 25-30: GD: St 5 ready |       |       |       |