| Topic    | Grade 1                       | Grade 2                       | Grade 3                                      | Grade 4  | Grade 5                                      | Grade 6  | Grade 7  | Grade 8   | Grade 9   |
|----------|-------------------------------|-------------------------------|--|--|--|--|--|---|---|
|          | Understand & find the place   | Understand & find the place   | Understand & find the place                  | Understand & find the place                      | Understand & find the place                  | Understand & find the place                      | Understand & find the place                      | Understand & find the place   | Understand & find the place   |
|          | value of whole numbers        | value of whole numbers        | value of whole numbers                       | value of whole numbers                           |  | value of whole numbers                           | value of whole numbers                           | value of whole numbers  | value of whole numbers  |
|          | Compare & order whole numbers | Compare & order whole numbers | Compare & order whole numbers                | Compare & order whole numbers                    | Compare & order whole numbers                | Compare & order whole numbers                    | Compare & order whole numbers                    | Compare & order whole numbers   | Compare & order whole numbers   |
|          | Understand & order negative   | Understand & order negative   | Understand & order negative                  | Understand & find the place                      | Understand & find the place                  | Understand & find the place                      | Understand & find the place                      | Understand & find the place   | Understand & find the place   |
|          | numbers                       | numbers                       | numbers                                      | value of whole decimals                          | •  | value of whole decimals                          | value of whole decimals                          | value of whole decimals   | value of whole decimals   |
|          |                               | Understand & find the place   | Understand & find the place                  |  |  |  |  |   |   |
|          |                               | value of whole decimals       | value of whole decimals                      | Compare & order decimals                         | Compare & order decimals                     | Compare & order decimals                         | Compare & order decimals                         | Compare & order decimals  | Compare & order decimals  |
|          |                               |                               |  | Understand & order negative                      | Understand & order negative                  | Understand & order negative                      | Understand & order negative                      | Understand & order negative   | Understand & order negative   |
|          |                               | Compare & order decimals      | ·  | numbers  |  | numbers  | numbers  | numbers   | numbers   |
|          |                               | Round a number to the nearest |  | Round a number to the nearest                    | Round a number to the nearest                | Round a number to the nearest                    | Round a number to the nearest                    | Round a number to the nearest   |   |
|          |                               | 10, 100, 1000                 | 10, 100, 1000  Round a number to the nearest | 10, 100, 1000  Round a number to the nearest     | 10, 100, 1000  Round a number to the nearest | 10, 100, 1000  Round a number to the nearest     | 10, 100, 1000  Round a number to the nearest     | 10, 100, 1000  Round a number to the nearest                          | 10, 100, 1000  Round a number to the nearest                          |
|          |                               |                               | whole number                                 | whole number                                     |  | whole number                                     | whole number                                     | whole number  | whole number  |
|          |                               |                               |  | Multiply & divide by 10, 100 &                   | Multiply & divide by 10, 100 &               | Multiply & divide by 10, 100 &                   | Multiply & divide by 10, 100 &                   | Multiply & divide by 10, 100 &  | Multiply & divide by 10, 100 &  |
|          |                               |                               | 1000   | 1000   | 1000   | 1000   | 1000   | 1000  | 1000  |
|          |                               |                               | Add & Subtract Decimals                      | Add & Subtract Decimals                          |  | Add & Subtract Decimals                          | Add & Subtract Decimals                          | Add & Subtract Decimals   | Add & Subtract Decimals   |
|          |                               |                               |  | Add & subtract negative                          |  | Add & subtract negative                          | Add & subtract negative                          | Add & subtract negative   | Add & subtract negative   |
|          |                               |                               |  | numbers  | _  | numbers  | numbers  | numbers   | numbers   |
| Ð        |                               |                               |  | multiply & divide negative                       | multiply & divide negative                   | multiply & divide negative                       | multiply & divide negative                       | multiply & divide negative  | multiply & divide negative  |
| <u> </u> |                               |                               |  | numbers  |  | numbers  | numbers  | numbers   | numbers   |
| Value    |                               |                               |  | Use the order of operations                      | Use the order of operations                  | Use the order of operations                      | Use the order of operations                      | Use the order of operations   | Use the order of operations   |
|          |                               |                               |  | including brackets                               |  | including brackets                               | including brackets                               | including brackets  | including brackets  |
| ace      |                               |                               |  | Use a calculator to work out longer calculations |  | Use a calculator to work out longer calculations | Use a calculator to work out longer calculations | Use a calculator to work out longer calculations                      | Use a calculator to work out longer calculations                      |
| Ā        |                               |                               |  | longer calculations                              | Round a number to a given                    | Round a number to a given                        | Round a number to a given                        | Round a number to a given   | Round a number to a given   |
|          |                               |                               |  |  | · · · · · · · · · · · · · · · · · · ·        | number of decimal places                         | number of decimal places                         | number of decimal places  | number of decimal places  |
|          |                               |                               |  |  | Multiply a whole number by a                 | Multiply a whole number by a                     | Multiply a whole number by a                     | Multiply a whole number by a  | Multiply a whole number by a  |
|          |                               |                               |  |  | decimal                                      | decimal  | decimal  | decimal   | decimal   |
|          |                               |                               |  |  |  | Round a number to a given                        | Round a number to a given                        | Divide a whole numbers by   | Divide a whole numbers by   |
|          |                               |                               |  |  |  | significant figures                              | significant figures                              | decimals  | decimals  |
|          |                               |                               |  |  |  | Use rounding to significant                      | Use rounding to significant                      | <b></b>   |   |
|          |                               |                               |  |  |  | figures to make estimates of calculations        | figures to make estimates of calculations        | Multiply and divide by powers of                                      | Multiply and divide by powers of 10                                   |
|          |                               |                               |  |  |  |  | Divide a whole numbers by                        | Round a number to a given   | Round a number to a given   |
|          |                               |                               |  |  |  |  | decimals   | significant figures   | significant figures   |
|          |                               |                               |  |  |  |  | Multiply and divide by powers of                 | Use rounding to significant figures to make estimates of calculations | Use rounding to significant figures to make estimates of calculations |
|          |                               |                               |  |  |  |  | 10   | Write large and small numbers   | Write large and small numbers   |
|          |                               |                               |  |  |  |  |  | in standard form  | in standard form  |
|          |                               |                               |  |  |  |  |  |   | Complete calculations with  |
|          |                               |                               |  |  |  |  |  |   | numbers in standard form  |
|          |                               |                               |  |  |  |  |  |   | Identify the upper & lower bound of a rounded value                   |
|          | Measure a line accurately     | Measure a line accurately     | Measure a line accurately                    | Measure a line accurately                        | Measure a line accurately                    | Measure a line accurately                        | Measure a line accurately                        | Measure a line accurately   | Measure a line accurately   |
|          | ivicasure a line accurately   | Find the area of a shape by   | •  | Find the area of a shape by                      | Find the area of a shape by                  | Find the area of a shape by                      | Find the area of a shape by                      | Find the area of a shape by   | Find the area of a shape by   |
|          |                               | counting squares              |  | counting squares                                 |  | counting squares                                 | counting squares                                 | counting squares  | counting squares  |
|          |                               | 7 140.00                      | 3 144.00                                     | 3 - 400.00                                       |  |  |  |   | 7   |
|          |                               |                               | Find the perimeter of any shape              | Find the perimeter of any shape                  | Find the perimeter of any shape              | Find the perimeter of any shape                  | Find the perimeter of any shape                  | Find the perimeter of any shape                                       | Find the perimeter of any shape                                       |
|          |                               |                               |  | Find the area of a rectangle                     |  | Find the area of a rectangle                     | Find the area of a rectangle                     | Find the area of a rectangle  | Find the area of a rectangle  |
|          |                               |                               | •  | Find the area of triangle                        | · · · · · · · · · · · · · · · · · · ·        | Find the area of triangle                        | Find the area of triangle                        | Find the area of triangle   | Find the area of triangle   |
|          |                               |                               |  | Find the area of a compound                      | Find the area of a compound                  | Find the area of a compound                      | Find the area of a compound                      | Find the area of a compound   | Find the area of a compound   |
|          |                               |                               |  | shape made up of rectangles                      | 1  | shape made up of rectangles                      | shape made up of rectangles                      | shape made up of rectangles   | shape made up of rectangles   |
|          |                               |                               |  | , ,  |  | Know the parts of a circle                       | Know the parts of a circle                       | Know the parts of a circle  | Know the parts of a circle  |

Find the area of a Find the area of a ind the area of a ind the area of a ind the area of a parallelogram parallelogram parallelogram parallelogram parallelogram erimeter Find the area of compound Find the area of compound ind the area of compound ind the area of compound ind the area of compound shapes involving rectangles, parallelograms & triangles Find the area of a Trapezium Find the area of a Kite Ø Find the area of a circle Find the area of a circle Find the area of a circle Find the circumference of a Find the circumference of a ind the circumference of a circle Find the area of a semi circle ind the area of a semi circle and parts of a circle and parts of a circle Find the circumference of a Find the circumference of a semi circle and parts of a circle emi circle and parts of a circle Find the area of a semi circle o a circle Find the area of a semi circle Find the perimeter of a semi ind the circumference of a circle semi circle Find the area of parts of a Find the perimeter of parts of a Recognise and find the multiples of a number Recognise and find the factor of Recognise and find the factor o Recognise and find the factor of a number a number a number a number a number Use & understand tests of divisibility divisibility divisibility divisibility divisibility divisibility divisibility Find the HCF of a set of numbers by listing ind the LCM of a set of Find the LCM of a set of numbers by listing To know how to square number To know how to square number To know how to square number To know how to square numbe To know how to square number To know how to square number mentally mentally mentally mentally mentally To know how to square a o know how to square a o know how to square a To know how to square a To know how to square a To know how to square a number using a calculator Recognise and find the first 10 square numbers square numbers square numbers square numbers square numbers square numbers Recognise and Find the first 1o Find the square root of a Find the square root of a Find the square root of a ind the square root of a ind the square root of a prime numbers number mentally number mentally number mentally number mentally number mentally Number Find the square root of a ind the square root of a number with a calculator Recognise and find the first 20 prime numbers prime numbers orime numbers prime numbers orime numbers of Use a calculator to calculate powers, roots, brackets & Use and write numbers in index fractions Use a calculator to calculate Jse a calculator to calculate Use a calculator to calculate Jse a calculator to calculate powers, roots, brackets & powers, roots, brackets & powers, roots, brackets & powers, roots, brackets & fractions fractions fractions fractions Use the divisibility tests to find factors of numbers actors of numbers factors of numbers actors of numbers Use the divisibility tests to find prime numbers prime numbers prime numbers prime numbers Write a number as a product of ts prime factors its prime factors its prime factors its prime factors Find and use the LCM & HCF Find and use the LCM & HCF Find and use the LCM & HCF of a set of numbers using prime of a set of numbers using prime of a set of numbers using prime factors factors actors

|                                 |                                   |                                   |  |   |                                    | Use, Multiply and divide by                         | Use, Multiply and divide by  | Use, Multiply and divide by                              |
|---------------------------------|-----------------------------------|-----------------------------------|--|---|------------------------------------|---|--|--|
|                                 |                                   |                                   |  |   |                                    | numbers in index form                               |  | numbers in index form                                    |
|                                 |                                   |                                   |  |   |                                    |   | Use index notation including   | Use index notation including                             |
|                                 |                                   |                                   |  |   |                                    |   | powers of zero and brackets  | powers of zero and brackets Use index notation including |
|                                 |                                   |                                   |  |   |                                    |   |  | negative indices   |
| Identify lines of symmetry in a | Identify lines of symmetry in a   | Identify lines of symmetry in a   | Identify lines of symmetry in a                        | Identify lines of symmetry in a                           | Identify lines of symmetry in a    | Identify lines of symmetry in a                     | Identify lines of symmetry in a  | Identify lines of symmetry in a                          |
| 2d shapes                       | 2d shapes                         | 2d shapes                         | 2d shapes  | 2d shapes   | 1                                  | 2d shapes   |  | 2d shapes  |
|                                 | Identify rotational symmetry in a | Identify rotational symmetry in a | Identify rotational symmetry in a                      | Identify rotational symmetry in a                         | Identify rotational symmetry in a  | Identify rotational symmetry in a                   | Identify rotational symmetry in a  | Identify rotational symmetry in                          |
|                                 | 2d shape                          | 2d shape                          | 2d shape   | 2d shape  | 2d shape                           | 2d shape  |  | 2d shape   |
|                                 | Understand and apply              | Understand and apply              | Understand and apply                                   | Understand and apply                                      | Understand and apply               | Understand and apply                                | Understand and apply   | Understand and apply                                     |
|                                 | tessellations to shapes           | tessellations to shapes           | tessellations to shapes                                | tessellations to shapes                                   | tessellations to shapes            | tessellations to shapes                             | tessellations to shapes  | tessellations to shapes                                  |
|                                 | Reflect shapes in a mirror line   | Reflect shapes in a mirror line.  | Reflect shapes in a mirror line.                       | Reflect shapes in a mirror line.                          | Reflect shapes in a mirror line.   | Reflect shapes in a mirror line.                    | Reflect shapes in a mirror line.   | Reflect shapes in a mirror line.                         |
|                                 | rteneet snapes in a minor inie.   | Transform a shape by              | Transform a shape by                                   | Transform a shape by                                      | Transform a shape by               | Transform a shape by                                | Transform a shape by   | Transform a shape by                                     |
|                                 |                                   | translation in words              | translation in words                                   | translation in words                                      | translation in words               | translation in words                                | translation in words   | translation in words                                     |
|                                 |                                   |                                   |  |   |                                    |   |  |  |
|                                 |                                   |                                   | Transform a shape by                                   | Transform a shape by                                      | Transform a shape by               | Transform a shape by                                | Transform a shape by   | Transform a shape by                                     |
|                                 |                                   |                                   | translation using vector notation                      | translation using vector notation                         | translation using vector notation  | translation using vector notation                   | translation using vector notation  | translation using vector notatio                         |
|                                 |                                   |                                   | Detete a shape around a naint                          | Detate a shape around a naint                             | Datata a shane around a naint      | Detete a chang around a naint                       | Detete a shape around a point  | Detete a chang ground a neint                            |
|                                 |                                   |                                   | Rotate a shape around a point Enlarge 2d shapes with a | Rotate a shape around a point<br>Enlarge 2d shapes with a | Rotate a shape around a point      | Rotate a shape around a point                       | Rotate a shape around a point  | Rotate a shape around a point                            |
|                                 |                                   |                                   | positive whole number scale                            | positive whole number scale                               | Recognise & describe               | Recognise & describe                                | Recognise & describe   | Recognise & describe                                     |
|                                 |                                   |                                   | factor   | factor  | translations                       | translations  | translations   | translations   |
|                                 |                                   |                                   |  | Recognise & describe                                      | Recognise & describe               | Recognise & describe                                | Recognise & describe   | Recognise & describe                                     |
|                                 |                                   |                                   |  | translations  | reflections                        | reflections   |  | reflections  |
|                                 |                                   |                                   |  |   | Enlarge 2d shapes with a           | Enlarge 2d shapes with a                            | Enlarge 2d shapes with a   | Enlarge 2d shapes with a                                 |
|                                 |                                   |                                   |  | Recognise & describe                                      | positive whole number scale        | positive whole number scale                         | positive whole number scale  | positive whole number scale                              |
| 1                               |                                   |                                   |  | reflections   | factor                             | factor  | factor   | factor   |
|                                 |                                   |                                   |  |   | Transform 2d shapes using a        | Transform 2d shapes using a                         |  |  |
|                                 |                                   |                                   |  |   | combination of transformations.    |   | Recognise & describe rotations   | Recognise & describe rotations                           |
|                                 |                                   |                                   |  |   |                                    |   | recognition of discount recognitions   | 1.0009.1100 0. 00001100 1010110110                       |
|                                 |                                   |                                   |  |   |                                    | Enlarge 2d shapes from a given                      | Transform 2d shapes using a  | Transform 2d shapes using a                              |
|                                 |                                   |                                   |  |   | centre of enlargement.             | centre of enlargement.                              | combination of transformations.  |  |
|                                 |                                   |                                   |  |   |                                    |   | Enlarge 2d shapes from a given   |  |
|                                 |                                   |                                   |  |   |                                    | •   | •  | centre of enlargement.                                   |
|                                 |                                   |                                   |  |   |                                    | Describe enlargements with a positive scale factor. | Describe enlargements with a positive scale factor.  | Describe enlargements with a positive scale factor.      |
|                                 |                                   |                                   |  |   |                                    | positive scale factor.                              |  | Enlarge 2d shapes with a                                 |
|                                 |                                   |                                   |  |   |                                    |   |  | fractional scale factor                                  |
|                                 |                                   |                                   |  |   |                                    |   |  | Enlarge 2d shapes with a                                 |
|                                 |                                   |                                   |  |   |                                    |   |  | negative scale factor                                    |
| Use fractions to describe parts | Use fractions to describe parts   | Use fractions to describe parts   | Use fractions to describe parts                        | Use fractions to describe parts                           | Use fractions to describe parts    | Use fractions to describe parts                     | Use fractions to describe parts  | Use fractions to describe parts                          |
| of a whole, including improper  | of a whole, including improper    | of a whole, including improper    | of a whole, including improper                         | of a whole, including improper                            | of a whole, including improper     | of a whole, including improper                      | of a whole, including improper   | of a whole, including improper                           |
| fractions                       | fractions                         | fractions                         | fractions  | fractions   | fractions  Express one number as a | fractions Express one number as a                   | fractions Express one number as a  | fractions Express one number as a                        |
|                                 | Identify equivalent fractions     | Identify equivalent fractions     | Identify equivalent fractions                          | Identify equivalent fractions                             | fraction of another                | fraction of another                                 | 1 ·  | fraction of another                                      |
|                                 | lacitary equivalent nactions      | Simplify a fraction               | Simplify a fraction                                    | Simplify a fraction                                       | Identify equivalent fractions      | Identify equivalent fractions                       | Identify equivalent fractions  | Identify equivalent fractions                            |
|                                 |                                   | Add & Subtract fractions with     | Add & Subtract fractions with                          | Add & Subtract fractions with                             |                                    |   | The state of the s |  |
|                                 |                                   | the same denominators             | the same denominators                                  | the same denominators                                     | Simplify a fraction                | Simplify a fraction                                 | Simplify a fraction  | Simplify a fraction                                      |
|                                 |                                   |                                   | Convert between improper                               | Convert between improper                                  | Add & Subtract fractions with      | Add & Subtract fractions with                       | Add & Subtract fractions with  | Add & Subtract fractions with                            |
|                                 |                                   |                                   | fractions and Mixed numbers                            | fractions and Mixed numbers                               | the same denominators              | the same denominators                               |  | the same denominators                                    |
|                                 |                                   |                                   | Find a fraction of a 100                               | Find a feather of a 10                                    | Convert between improper           | Convert between improper                            | Convert between improper   | Convert between improper                                 |
|                                 |                                   |                                   | Find a fraction of a quantity                          | Find a fraction of a quantity                             | fractions and Mixed numbers        | fractions and Mixed numbers                         | fractions and Mixed numbers  | fractions and Mixed numbers                              |
|                                 |                                   |                                   |  | Order fractions   | Find a fraction of a quantity      | Find a fraction of a quantity                       | Find a fraction of a quantity  | Find a fraction of a quantity                            |
|                                 |                                   |                                   |  | Convert between percentages,                              |                                    |   |  |  |
|                                 |                                   |                                   |  | fractions & decimals                                      | Order fractions                    | Order fractions                                     | Order fractions  | Order fractions  |
|                                 |                                   |                                   |  |   |                                    |   |  |  |
|                                 |                                   |                                   |  |   | Convert between percentages,       | Convert between percentages,                        | Convert between percentages,   | Convert between percentages,                             |
|                                 |                                   |                                   |  |   | fractions & decimals               | fractions & decimals                                | fractions & decimals   | fractions & decimals                                     |

|  |                         |  |                                 |                              |                                | IA 11 0 11 16 17 17                     |  | IA 11 0 11 16 17 17            |   |
|--|-------------------------|--|---------------------------------|------------------------------|--------------------------------|---|--|--------------------------------|---|
|  |                         |  |                                 |                              |                                | Add & subtract fractions with           | Add & subtract fractions with  |                                | Add & subtract fractions with             |
|  |                         |  |                                 |                              |                                | different denominators                  | different denominators   |                                | different denominators                    |
|  |                         |  |                                 |                              |                                | Use a calculator to solve               | Use a calculator to solve  | Use a calculator to solve      | Use a calculator to solve                 |
|  |                         |  |                                 |                              |                                | fraction problems                       | fraction problems  |                                | fraction problems                         |
|  |                         |  |                                 |                              |                                | Multiply fractions                      | Multiply fractions   |                                | Multiply fractions                        |
|  |                         |  |                                 |                              |                                | Divide fractions                        | Divide fractions   | Divide fractions               | Divide fractions                          |
|  |                         |  |                                 |                              |                                | Express one number as a                 | Express one number as a  | Express one number as a        | Express one number as a                   |
|  |                         |  |                                 |                              |                                | fraction of another                     | fraction of another  | fraction of another            | fraction of another                       |
|  |                         |  |                                 |                              |                                |   |  | Add & Subtract Mixed Numbers   | Find reciprocals                          |
|  |                         |  |                                 |                              |                                |   |  | 1.7                            | Add & Subtract Mixed Numbers              |
|  |                         |  |                                 |                              |                                |   |  | Divide Mixed Numbers           | Multiply Mixed Numbers                    |
|  |                         |  |                                 |                              |                                |   |  |                                | Divide Mixed Numbers                      |
|  |                         |  |                                 | Measure and draw a line      | Measure and draw a line        | Measure and draw a line                 | Measure and draw a line  | Measure and draw a line        | Measure and draw a line                   |
|  |                         |  |                                 | accurately                   | accurately                     | accurately                              | accurately   | accurately                     | accurately                                |
|  | Measure and draw a line | Measure and draw a line  |                                 | •                            | Measuring and draw angles      | Measuring and draw angles               | Measuring and draw angles  | Measuring and draw angles      | Measuring and draw angles                 |
|  | accurately              | accurately   | accurately                      | accurately                   | accurately                     | accurately                              | accurately   | accurately                     | accurately                                |
|  | •                       | Accurately drawing circles and   | •                               | ,                            | Accurately drawing circles and | Accurately drawing circles and          | Accurately drawing circles and   | Accurately drawing circles and | Accurately drawing circles and            |
|  |                         | parts with a compass   |                                 | •                            | parts with a compass           | parts with a compass                    | parts with a compass   |                                | parts with a compass                      |
|  | . ,                     | ,  | Accurately drawing circles and  | 1                            | ,                              |   |  |                                | 1 2 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
|  |                         | Classify all 2d shapes   | •                               | Read & use compass points    | Read & use compass points      | Read & use compass points               | Read & use compass points  | Read & use compass points      | Read & use compass points                 |
|  |                         | and the state of t | · ·                             |                              | Classify all 2d shapes         | Classify all 2d shapes                  | Classify all 2d shapes   | · ·                            | Classify all 2d shapes                    |
|  |                         |  | · · ·                           | To understand & apply        | To understand & apply          | To understand & apply                   | To understand & apply  | To understand & apply          | To understand & apply                     |
|  |                         |  |                                 |                              |                                |   |  |                                |   |
|  |                         |  | Classify all 2d shapes          |                              | properties of triangles        | properties of triangles                 | properties of triangles  |                                | properties of triangles                   |
|  |                         |  |                                 | To understand & apply        | To understand & apply          | To understand & apply                   | To understand & apply  | To understand & apply          | To understand & apply                     |
|  |                         |  |                                 | properties of quadrilaterals | properties of quadrilaterals   | properties of quadrilaterals            | properties of quadrilaterals   | · · ·                          | properties of quadrilaterals              |
|  |                         |  |                                 |                              | Construct triangles given 2    | Construct triangles given 2             | Construct triangles given 2  | Construct triangles given 2    | Construct triangles given 2               |
|  |                         |  |                                 |                              | angles and a side              | angles and a side                       | - Company of the Comp |                                | angles and a side                         |
|  |                         |  |                                 |                              | Construct a triangle given 3   | Construct a triangle given 3            | Construct a triangle given 3   |                                | Construct a triangle given 3              |
|  |                         |  |                                 |                              | sides                          | sides                                   | sides  |                                | sides                                     |
|  |                         |  |                                 |                              | Construct a triangle given 2   | Construct a triangle given 2            | Construct a triangle given 2   | Construct a triangle given 2   | Construct a triangle given 2              |
|  |                         |  |                                 |                              | sides and an angle             | sides and an angle                      | sides and an angle   | sides and an angle             | sides and an angle                        |
|  |                         |  |                                 |                              |                                | Use & interpret maps and scale          | Use & interpret maps and scale   | Use & interpret maps and scale | Use & interpret maps and scale            |
|  |                         |  |                                 |                              |                                | drawings                                | drawings   | drawings                       | drawings                                  |
|  |                         |  |                                 |                              |                                | Use a scale to construct an             | Use a scale to construct an  | Construct perpendicular &      | Construct perpendicular &                 |
|  |                         |  |                                 |                              |                                | accurate drawing                        | accurate drawing   | angle bisectors                | angle bisectors                           |
|  |                         |  |                                 |                              |                                | Construct perpendicular &               | Construct perpendicular &  | Use a scale to construct an    | Use a scale to construct an               |
|  |                         |  |                                 |                              |                                | angle bisectors                         | · · ·  |                                | accurate drawing                          |
|  |                         |  |                                 |                              |                                | lg.o 2.000to.c                          | Construct perpendicular  | _                              | Construct perpendicular                   |
|  |                         |  |                                 |                              |                                |   |  | · · ·                          | bisectors from a point to a line          |
|  |                         |  |                                 |                              |                                |   | Construct perpendicular  |                                | Construct perpendicular                   |
|  |                         |  |                                 |                              |                                |   | · · ·  | · · ·                          | bisectors from a point on a line          |
|  |                         |  |                                 |                              |                                |   | position in our diposition di initi  | point on a mine                | understand the properties of              |
|  |                         |  |                                 |                              |                                |   |  | Construct loci                 | loci                                      |
|  |                         |  |                                 |                              |                                |   |  |                                | Construct loci                            |
|  |                         |  |                                 |                              |                                |   |  |                                | Draw a locus of a point from a            |
|  |                         |  |                                 |                              |                                |   |  |                                | give rule                                 |
|  |                         | ·  | Use letter symbols to represent |                              | *                              | Use letter symbols to represent         |  | •                              | Use letter symbols to represent           |
|  |                         |  | unknown numbers                 | unknown numbers              | unknown numbers                | unknown numbers                         | unknown numbers  | unknown numbers                | unknown numbers                           |
|  |                         | Substitute positive whole  |                                 |                              |                                |   |  |                                |   |
|  |                         | numbers into expressions &   |                                 |                              |                                |   |  |                                | Simplify algebraic expressions            |
|  |                         | formulae   | by collecting like terms        | by collecting like terms     | by collecting like terms       | by collecting like terms                | by collecting like terms   | by collecting like terms       | by collecting like terms                  |
|  |                         |  | Substitute positive whole       | Substitute positive whole    | Substitute positive whole      | Substitute positive whole               | Substitute positive whole  | Substitute positive whole      | Substitute positive whole                 |
|  |                         |  | ·                               | '                            | numbers into expressions &     | numbers into expressions &              | numbers into expressions &   | ·                              | numbers into expressions &                |
|  |                         |  | ·                               | ·                            | •                              | formulae                                | · ·  | · ·                            | formulae                                  |
|  |                         |  |                                 |                              | Write an expressions from a    | Write an expressions from a             | Write an expressions from a  |                                | Write an expressions from a               |
|  |                         |  | ·                               |                              | worded statements              | worded statements                       | worded statements  | •                              | worded statements                         |
|  |                         |  |                                 |                              | Expand a single bracket such   | Expand a single bracket such            | Expand a single bracket such   |                                | Expand a single bracket such              |
|  |                         |  | '                               | ' 1, I,                      | as 3(x + 2)                    | as 3(x + 2)                             | ı ·  |                                | as 3( x +2)                               |
|  |                         |  |                                 | V / / /                      | - V X · L                      | 1 × × × × × × × × × × × × × × × × × × × | 100 V( // L)   | / -/                           | / -/                                      |

|             |                                  |                                  |  | Multiply algebraic expressions   | Multiply algebraic expressions   | Multiply algebraic expressions   | Multiply algebraic expressions   | Multiply algebraic expressions   | Multiply algebraic expressions   |
|-------------|----------------------------------|----------------------------------|--|--|--|--|--|--|--|
| Expressions |                                  |                                  |  | Write expressions for perimeter  | Write expressions for perimeter  | Write expressions for perimeter  | Write expressions for perimeter  | Write expressions for perimeter  | Write expressions for perimeter  |
|             |                                  |                                  |  | The state of the s | the state of the s |  | of shapes  | · · · · · · · · · · · · · · · · · · ·  | of shapes  |
|             |                                  |                                  |  | Expand a single bracket such   | Expand a single bracket such   | Expand a single bracket such   | Expand a single bracket such   | Expand a single bracket such   | Expand a single bracket such   |
|             |                                  |                                  |  | as 2x(3x - 5)  |  | , ·  | as 2x(3x - 5)  | ·  | as 2x( 3x - 5)   |
|             |                                  |                                  |  | as 2x( 3x - 5)   | · · · · · · · · · · · · · · · · · · ·  | ` '  | ,  | · /  | ` '  |
|             |                                  |                                  |  |  | Expand 2 single brackets and collect the like terms  | Expand 2 single brackets and collect the like terms  | Expand 2 single brackets and collect the like terms  | Expand 2 single brackets and collect the like terms  | Expand 2 single brackets and collect the like terms  |
| SS          |                                  |                                  |  |  | collect the like terms   | collect the like terms   | collect the like terms   | collect the like terms   | collect the like terms   |
| <u> </u>    |                                  |                                  |  |  | F4iii  | F4ii   |  | F4ii   | F4   |
| 9           |                                  |                                  |  |  | · · · · · · · · · · · · · · · · · · ·  | Factorise an expression where  | · · · · · · · · · · · · · · · · · · ·  | · · · · · · · · · · · · · · · · · · ·  | Factorise an expression where  |
| Ĥ           |                                  |                                  |  |  | the common factor is a number  | the common factor is a number  | the common factor is a number  | the common factor is a number  | the common factor is a number  |
|             |                                  |                                  |  |  |  |  |  |  |  |
|             |                                  |                                  |  |  |  | Factorise an expression where  |  | <b>.</b>   |  |
|             |                                  |                                  |  |  |  |  | Divide algebraic terms   |  | Divide algebraic terms   |
|             |                                  |                                  |  |  |  | Use multiplication & division  | Use multiplication & division  |  | Use multiplication & division  |
|             |                                  |                                  |  |  |  |  | index laws to simplify   | The state of the s | index laws to simplify   |
|             |                                  |                                  |  |  |  | •  | expressions  | •  | expressions  |
|             |                                  |                                  |  |  |  |  | Write expressions for area of  | Write expressions for area of  | Write expressions for area of  |
|             |                                  |                                  |  |  |  |  | shapes   | shapes   | shapes   |
|             |                                  |                                  |  |  |  |  |  |  |  |
|             |                                  |                                  |  |  |  |  | Factorise an expression where  | · · · · · · · · · · · · · · · · · · ·  | Factorise an expression where  |
|             |                                  |                                  |  |  |  |  | the common factor is a letter  |  | the common factor is a letter  |
|             |                                  |                                  |  |  |  |  |  | Factorise an expression where  | Factorise an expression where  |
|             |                                  |                                  |  |  |  |  |  | the common factors are letters   | the common factors are letters   |
|             |                                  |                                  |  |  |  |  |  |  | and numbers  |
|             |                                  |                                  |  |  |  |  |  |  | Multiply out 2 brackets to a   |
|             |                                  |                                  |  |  |  |  |  | quadratic  | quadratic  |
|             |                                  |                                  |  |  |  |  |  |  | Simplify algebraic fractions   |
|             | Draw & read a pictogram          | Draw & read a pictogram          | Draw & read a pictogram  | Draw & read a pictogram  | Draw & read a pictogram  | Draw & read a pictogram  | Draw & read a pictogram  | Draw & read a pictogram  | Draw & read a pictogram  |
|             |                                  | Draw & read a tally charts       | Draw & read a tally charts   | Draw & read a tally charts   | Draw & read a tally charts   |  | Draw & read a tally charts   |  | Draw & read a tally charts   |
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|             |                                  |                                  |  |  |  |  |  |  |  |
|             |                                  | Draw & read a har chart          | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   |
|             |                                  | Draw & read a bar chart          | Draw & read a her short  | Draw & read a her short  | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   | Draw & read frequency tables   |
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| ı <b>=</b> |          |  |  |  | Use the nth term rule to find a        | Use the nth term rule to find a         | Use the nth term rule to find a     | Use the nth term rule to find a        | Use the nth term rule to find a        |
|------------|----------|--|--|--|--|---|-------------------------------------|--|--|
| Sequen     |          |  |  |  | term in a sequence                     | term in a sequence                      |                                     |  | term in a sequence                     |
| ㅁ          |          |  |  |  | ·                                      | Finding the nth term rule of a          | Finding the nth term rule of a      | Finding the nth term rule of a         | Finding the nth term rule of a         |
| ě          |          |  |  |  |  | sequence of numbers                     | sequence of numbers                 | sequence of numbers                    | sequence of numbers                    |
| S          |          |  |  |  |  | Finding the nth term rule of a          | Finding the nth term rule of a      | Finding the nth term rule of a         | Finding the nth term rule of a         |
|            |          |  |  |  |  | pattern                                 | pattern                             | pattern                                | pattern                                |
|            |          |  |  |  |  |   | Use a quadratic nth term rule to    | Use a quadratic nth term rule to       | Use a quadratic nth term rule to       |
|            |          |  |  |  |  |   | generate and find terms in a        | generate and find terms in a           | generate and find terms in a           |
|            |          |  |  |  |  |   | sequence                            | sequence                               | sequence                               |
|            |          |  |  |  |  |   |                                     |  | Finding nth term rule of a             |
|            |          |  |  |  |  |   |                                     |  | quadratic sequence                     |
|            |          |  |  |  |  |   |                                     |  | Find terms of a geometric              |
|            |          |  |  |  |  |   |                                     |  | sequence                               |
|            |          |  |  |  |  |   |                                     |  | Generate a recursive sequence          |
|            |          |  |  |  |  | Di i |                                     |  | from the rule                          |
|            |          |  |  | Plot & read co ordinates in first      |  |   |                                     | Plot & read co ordinates in first      | Plot & read co ordinates in first      |
|            | quadrant | quadrant Plot & read co ordinates in 4 | quadrant Plot & read co ordinates in 4 | quadrant Plot & read co ordinates in 4 | quadrant Plot & read co ordinates in 4 | quadrant Plot & read co ordinates in 4  | t ·                                 | quadrant Plot & read co ordinates in 4 | quadrant Plot & read co ordinates in 4 |
|            |          | quadrant                               | quadrant                               | quadrant                               | quadrant                               | quadrant                                | quadrant                            | quadrant                               | quadrant                               |
|            |          | quadrant                               | Plot & name vertical or                 | Plot & name vertical or             | Plot & name vertical or                | Plot & name vertical or                |
|            |          |  | horizontal lines                       |  |  | horizontal lines                        |                                     |  | horizontal lines                       |
|            |          |  | nonzontai iines                        |  |  |   | Plot line graphs such as y = 2x -   |  |  |
| <u>ر</u>   |          |  |  | 5                                      | 15                                     | 15                                      | 15                                  | 5                                      | 5                                      |
| Graphs     |          |  |  |  | find the midpoint of a line            | find the midpoint of a line             | find the midpoint of a line         | find the midpoint of a line            | find the midpoint of a line            |
| Ģ          |          |  |  |  |  | Find if a point is on a line or not     | Find if a point is on a line or not | Find if a point is on a line or not    | Find if a point is on a line or not    |
|            |          |  |  |  |  | draw quadratic graphs                   | draw quadratic graphs               | draw quadratic graphs                  | draw quadratic graphs                  |
|            |          |  |  |  |  |   |                                     |  | Solve simultaneous equations           |
|            |          |  |  |  |  |   |                                     | Plot cubic graphs                      | graphically                            |
|            |          |  |  |  |  |   |                                     |  | Use a quadratic graph to solve         |
|            |          |  |  |  |  |   |                                     |  | quadratic equations                    |
|            |          |  |  |  |  |   |                                     |  | Plot cubic graphs                      |