# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 8 

Half Term 1 - Week 1 (WC Monday $4^{\text {th }}$ September)

| Lesson Focus | Big Picture - success criteria. | INSET / CLIMBING THE MOUNTAIN | INSET / CLIMBING THE MOUNTAIN | Introduction and expectations Writing powers in index form Square numbers and square roots |
| :---: | :---: | :---: | :---: | :---: |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. |  |  | - Numerical skills - KPI 7.01 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. |  |  | Square number = The result of an integer multiplied by itself <br> Square root $=$ The factor that multiplies by itself to get the given number <br> Index form = A number written to the power of another number |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. |  |  | Students should know and copy down all square numbers up to $15 \times 15$ and use these to work backwards to find roots <br> Brackets should be used for index form involving fractional or negative bases <br> When more than one variable is included, these should be written in alphabetical order |
| Independent Practice | The task and reference back to the Big Picture Slide |  |  | 1. Calculating square numbers <br> 2. Finding square roots <br> 3. Writing repeated multiplication of integers in index form <br> 4. Writing repeated multiplication of decimals and fractions in index form |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. |  |  | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment |
| Calculator Usage | Use of calculator functions |  |  | Using a calculator to find squares and square roots |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies |  |  | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | 8 X will miss their lessons on Monday due to INSET | 8Y will miss their lesson on Tuesday due to INSET | Numeracy focus - Listing square numbers up to $15 \times 15$ (working these out, then committing to memory) |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 8 

Half Term 1 - Week 2 (WC Monday $11^{\text {th }}$ September)

| 1 | 2 |
| :--- | :--- |

3

|  |  | 1 | 2 | 3 |
| :---: | :---: | :---: | :---: | :---: |
| Lesson Focus | Big Picture - success criteria. | Cube numbers and cube roots Estimating roots | Further powers | Contingency time KPI 8.01 Powers and roots Closing the Gap |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Numerical skills - KPI 7.01 | - Numerical skills - KPI 7.01 | - Numerical skills - KPI 7.01 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Cube number = The result of an integer multiplied by itself and then multiplied by itself again <br> Cube root = The factor that multiplies by itself, and then multiplies by itself again to get the given number | Any number to the power of $0=1$ <br> Power of 2 = Any index number with a base of 2 | N/A |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Students should know and copy down all cube numbers up to $5 \times 5 \times 5$ and including $10 \times 10 \times 10$ and use these to work backwards to find roots <br> To estimate roots students should identify the two closest roots (one above and one below) and use their roots to estimate the root of the given value | Identify powers of common bases (2, 3, 5 and 10) by counting in known powers, or listing powers | N/A |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Calculating cube numbers <br> 2. Finding cube roots <br> 3. Estimating square roots <br> 4. Estimating cube roots | 1. Evaluating numbers written to the power of 0 <br> 2. Identifying numbers in base $2,3,5$ and 10 <br> 3. Writing and simplifying numbers into a given base | 1. KPI test to be completed independently |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | KPI test |
| Calculator Usage | Use of calculator functions | Using a calculator to find cubes and cube roots | Using a calculator to find powers and roots (beyond squares and square roots / cubes and cube roots) | Using a calculator to find powers and roots |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Numeracy focus - Listing cube numbers up to $5 \times 5 \times 5$ and including $10 \times 10 \times 10$ (working these out and then committing to memory) | Numeracy focus - Recalling that anything written to the power of 0 is 1 | Core or Extend KPI to be completed based on class focus |


| Half Term 1 - Week 3 (WC Monday $18^{\text {th }}$ September) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | RECAP of factors and multiples | Introduction to prime numbers Prime factor decomposition | Prime factor decomposition Expressing a number from a product of prime factors |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Numerical skills - KPI 7.01 <br> - Factors and multiples - KPI 7.04 | - Numerical skills - KPI 7.01 <br> - Factors and multiples - KPI 7.04 | - Numerical skills - KPI 7.01 <br> - Factors and multiples - KPI 7.04 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Prime number = A number with exactly two factors <br> Factors = A number that divides another number, <br> leaving no remainder <br> Multiples = The product result of one number multiplied by another number <br> Common = The same | ```Prime number = A number with exactly two factors (itself and 1) Common = The same Product = Multiply``` | Prime number = A number with exactly two factors (itself and 1) <br> Common $=$ The same <br> Product $=$ Multiply |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Listing factors and circling the Highest Common Factor Listing multiples and circling the Lowest Common Multiple | Divisibility tests for multiples of $2,10,5,3,9$ and 6 <br> Using a prime factor tree to express a number as a product of prime factors (and simplifying this into index form) | Using a prime factor tree to express a number as a product of prime factors (and simplifying this into index form) <br> Working backwards to find a number when given its prime factorisation <br> Finding prime factorisation of factors or multiples of the number, when given the original number's prime factorisation |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Listing factors <br> 2. Finding the HCF <br> 3. Listing multiples <br> 4. Finding the LCM | 1. Identifying prime numbers <br> 2. Stating whether a number is divisible by another number <br> 3. Prime factorisation | 1. Prime factorisation <br> 2. Writing a number from the product of prime factors <br> 3. Adjusting the product of prime factors to write factors / multiples of the original number |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment |
| Calculator Usage | Use of calculator functions | N/A | N/A | Use of the FACT button |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Numeracy focus - Listing factors of a number Listing multiples of a number | Numeracy focus - Divisibility tests for 2, 5 and 10 Writing a number as a product of prime factors | Numeracy focus - Writing a number as a product of prime factors |

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| Half Term 1 - Week 4 (WC Monday $25^{\text {th }}$ September) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Contingency time KPI 8.02 Prime factorisation Closing the Gap | RECAP of rounding to $\mathbf{1 0}, \mathbf{1 0 0}, 1000$, integers and decimal places | Rounding integers to the nearest significant figures |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Numerical skills - KPI 7.01 <br> - Factors and multiples - KPI 7.04 | - Numerical skills - KPI 7.01 | - Numerical skills - KPI 7.01 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | N/A | Nearest = Closest | Significant figures are the digits in a number that contribute to the accuracy of it |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | N/A | Underline / highlight the digit that influences the rounding before changing any values | Count significant figures from left to right <br> Underline / highlight the digit that influences the rounding before changing any values |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. KPI test to be completed independently | 1. Rounding to the nearest $10,100,1000$ <br> 2. Rounding to the nearest integer and decimal place <br> 3. Mixed rounding | 1. Rounding integers to 1 significant figure <br> 2. Rounding integers to $2 / 3$ significant figures <br> 3. Rounding integers to a mixture of significant figures |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | KPI test | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment |
| Calculator Usage | Use of calculator functions | Use of the FACT button | N/A | N/A |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to New information broken down into small chunks Clear steps named for students to follow independently Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Core or Extend KPI to be completed based on class focus | Numeracy focus - Identifying the digit that influences the rounding | Numeracy focus - Rounding integers to one significant figure |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 8 

| Half Term 1 - Week 5 (WC Monday ${ }^{\text {nd }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Significant and non-significant zeros Rounding decimals to the nearest significant figures | Problem solving bounds / working backwards rounding questions | Contingency time KPI 8.03 Rounding Closing the Gap |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Numerical skills - KPI 7.01 | - Numerical skills - KPI 7.01 | - Numerical skills - KPI 7.01 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Significant figures are the digits in a number that contribute to the accuracy of it | Place value = The value of a digit depending on its position within a number | N/A |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Count significant figures from left to right, circle any significant zeros <br> Underline / highlight the digit that influences the rounding before changing any values | Think about what place value the number has been rounded to <br> Half the place value and add / subtract this to find the highest and lowest possible values | N/A |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Rounding decimals to the nearest significant figure (no zero digits) <br> 2. Rounding decimals to the nearest significant figure (including significant and non-significant zero digits) | 1. Listing values that round to a given number <br> 2. Identifying the highest and lowest values that round to a given number <br> 3. Answer questions in context involving the highest and lowest values that round to a given number | 1. KPI test to be completed independently |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | Circulation Live book marking Do Now self-assessment Whole class AFL Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | KPI test |
| Calculator Usage | Use of calculator functions | N/A | N/A | N/A |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Numeracy focus - Identifying significant and nonsignificant zeros | Numeracy focus - Listing values that would round to a given number | Core or Extend KPI to be completed based on class focus |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 8 

| Half Term 1 - Week 6 (WC Monday 9 ${ }^{\text {th }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | RECAP of equivalent fractions and simplifying fractions <br> Writing integers as fractions <br> Finding reciprocals of integers and fractions | RECAP of converting between mixed numbers and improper fractions RECAP of adding and subtracting fractions | Multiplying fractions Multiplying mixed numbers |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Fraction manipulation - KPI 7.10 <br> - Adding and subtracting fractions - KPI 7.11 <br> - Comparing and ordering fractions - KPI 7.12 | - Fraction manipulation - KPI 7.10 <br> - Adding and subtracting fractions - KPI 7.11 <br> - Comparing and ordering fractions - KPI 7.12 | - Fraction manipulation - KPI 7.10 <br> - Adding and subtracting fractions - KPI 7.11 <br> - Comparing and ordering fractions - KPI 7.12 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Numerator = The top of the fraction <br> Denominator = The bottom of the fraction <br> Reciprocal $=$ The value needed to multiply with a <br> given number to make 1 | Improper fraction = A fraction where the numerator is larger than the denominator <br> Proper fraction = A fraction where the numerator is smaller than the denominator | Improper fraction = A fraction where the numerator is larger than the denominator <br> Proper fraction = A fraction where the numerator is smaller than the denominator |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Divide the numerator and denominator by their HCF to simplify Invert the fraction to find a reciprocal Any integer can be written as a fraction with a denominator of 1 | List multiples of the denominator and circle the appropriate value to convert between mixed numbers and improper fractions List multiples to find the LCM and multiply both fractions to make a common denominator before adding or subtracting fractions | To multiply fractions, multiply across the numerators and across the denominators |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Identifying equivalent fractions and filling the gaps in pairs of equivalent fractions <br> 2. Simplifying fractions <br> 3. Finding the reciprocals of fractions <br> 4. Finding the reciprocals of integers | 1. Convert between improper fractions and mixed numbers <br> 2. Add / subtract proper fractions with the same denominator <br> 3. Add / subtract proper fractions with different denominators <br> 4. Add / subtract fractions and mixed numbers with different denominators | 1. Multiplying proper fractions <br> 2. Multiplying proper fractions and simplifying the answer <br> 3. Multiplying mixed numbers <br> 4. Multiplying integers and fractions |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment |
| Calculator Usage | Use of calculator functions | Using a calculator to simplify fractions including knowing how to type a fraction into a calculator | Using a calculator to convert between mixed numbers and improper fractions | N/A |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Numeracy focus - Simplifying fractions by identifying the HCF | Numeracy focus - Convert between mixed numbers and improper fractions Add and subtract fractions with the same denominator | Numeracy focus - Multiply proper fractions |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 8 

Half Term 1 - Week 7 (WC Monday $16^{\text {th }}$ October)

| Lesson Focus | Big Picture - success criteria. | Dividing fractions Dividing mixed numbers | Fractions - Mixed 4 operations | Contingency time KPI 8.04 Fractions Closing the Gap |
| :---: | :---: | :---: | :---: | :---: |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Fraction manipulation - KPI 7.10 <br> - Adding and subtracting fractions - KPI <br> 7.11 <br> - Comparing and ordering fractions - KPI 7.12 | - Fraction manipulation - KPI 7.10 <br> - Adding and subtracting fractions - KPI <br> 7.11 <br> - Comparing and ordering fractions - KPI 7.12 | - Fraction manipulation - KPI 7.10 <br> - Adding and subtracting fractions - KPI 7.11 <br> - Comparing and ordering fractions - KPI 7.12 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Reciprocal = The value needed to multiply with a given number to make 1 | RECAP of core knowledge covered in the previous 4 lessons on fraction arithmetic | N/A |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | To divide fractions, multiply by the reciprocal | List multiples to find the LCM and multiply both fractions to make a common denominator before adding or subtracting fractions <br> To multiply fractions, multiply across the numerators and across the denominators <br> To divide fractions, multiply by the reciprocal | N/A |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Dividing proper fractions <br> 2. Dividing proper fractions and simplifying the answer <br> 3. Dividing mixed numbers <br> 4. Dividing integers and fractions | 1. Mixed four operations (add, subtract, multiply, divide) with proper fractions <br> 2. Mixed four operations (add, subtract, multiply, divide) with mixed numbers <br> 3. Answer fraction arithmetic questions in context | 1. KPI test to be completed independently |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | Circulation <br> Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment | KPI test |
| Calculator Usage | Use of calculator functions | N/A | N/A | Simplifying fractions on a calculator Converting mixed numbers and improper fractions on a calculator |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Numeracy focus - Dividing proper fractions | Numeracy focus - Practice the four operations (add, subtract, multiply, divide) with proper fractions and recognise which method needs to be selected | Core or Extend KPI to be completed based on class focus |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 8 

| Half Term 1 - Week 8 (WC Monday $23{ }^{\text {rd }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | RECAP of expanding and factorising single brackets | RECAP <br> Closing the Gap | RECAP <br> Closing the Gap |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Expand and factorise - KPI 7.05 <br> - Factors and multiples - KPI 7.04 |  |  |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Expand = To multiply each term in the bracket by the integer / expression outside of the bracket Factorise $=$ To put an expression into a bracket by dividing by a common factor |  |  |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | To expand a single bracket, multiply each term by the expression on the outside of the bracket To factorise a single bracket, find the common factor of the expression and divide each term by the common factor to put the expression into a bracket |  |  |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Expanding single brackets (multiplying by an integer) <br> 2. Expanding single brackets (multiplying by a variable) <br> 3. Expanding two single brackets and simplifying <br> 4. Factorising single brackets (dividing by an integer) <br> 5. Factorising single brackets (dividing by a variable) <br> 6. Expand and factorise questions in context (involving area or perimeter) |  |  |
| Assessment (Informal/Formal) | Circulation/live feedback/selfassessment/class assessment/whole class feedback (marking cycle)/quiz. | Circulation Live book marking <br> Do Now self-assessment <br> Whole class AFL <br> Independent practice self-assessment |  |  |
| Calculator Usage | Use of calculator functions | N/A |  |  |
| Resources | (Hyperlink) |  |  |  |
| Specific SEN(D)/EAL support | Overview for the lesson - can be repeated strategies | Clear Expert Model printed or copied down for students to refer to <br> New information broken down into small chunks Clear steps named for students to follow independently Student specific passport / ILP strategies followed |  |  |
| Class considerations | Specific set direction where applicable | Numeracy focus - Expanding and factorising single brackets in the form $\mathrm{ax}+\mathrm{b}$ | Teacher to select most appropriate topic to teach based on class data (Do Now / Fluency / KPI tests / Live marking) | Teacher to select most appropriate topic to teach based on class data (Do Now / Fluency / KPI tests / Live marking) |

