# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 9 

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 RECAP of adding and subtracting integers and decimals |
| :---: | :---: | :---: | :---: | :---: |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. |  |  | - Addition and Subtraction - KPI 7.06 <br> - Multiplication and division of integers - KPI 7.08 <br> - Order of operations - KPI 7.02 <br> - Unit of measurements - KPI 8.09 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. |  |  | Integer = Whole number |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. |  |  | Use the column method for addition and subtraction, ensuring decimal places are correctly lined up <br> Use of a number line for addition and subtraction involving negatives |
| Independent Practice | The task and reference back to the Big Picture Slide |  |  | 1. Addition and subtraction of positive integers and decimals <br> 2. Addition and subtraction of positive and negative integers and decimals <br> 3. Addition and subtraction in context |
| 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 |  |  | 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 | 9X will miss their lessons on Monday and Tuesday due to INSET | 9Y will miss their lesson on Tuesday due to INSET | Numeracy focus - Adding and subtracting positive integers |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 9 

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

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| Lesson Focus | Big Picture - success criteria. | RECAP of multiplying and dividing integers and decimals | RECAP of money calculations Bank statements | RECAP of BIDMAS |
| :---: | :---: | :---: | :---: | :---: |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Addition and Subtraction - KPI 7.06 <br> - Multiplication and division of integers - KPI 7.08 <br> - Order of operations - KPI 7.02 <br> - Unit of measurements - KPI 8.09 | - Addition and Subtraction - KPI 7.06 <br> - Multiplication and division of integers - KPI 7.08 <br> - Order of operations - KPI 7.02 <br> - Unit of measurements - KPI 8.09 | - Addition and Subtraction - KPI 7.06 <br> - Multiplication and division of integers - KPI 7.08 <br> - Order of operations - KPI 7.02 <br> - Unit of measurements - KPI 8.09 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Integer = Whole number | Money must always be written to 2 decimal places <br> Credit $=$ Money going into an account <br> Debit = Money going out of an account <br> Balance $=$ Current total amount in an account | Brackets <br> Indices (including powers and roots) <br> Division / Multiplication <br> Addition / Subtraction |
| Expert Model/Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Use of the column method for multiplication <br> Use of the 'bus stop method' (short division) for division <br> Adjusting place value when required to multiply and divide with decimals | Calculator multiplier method used to find percentages <br> Column method for addition and subtraction <br> Money must always be written to 2 decimal places | Order of operations to follow <br> Brackets <br> Indices (including powers and roots) <br> Division / Multiplication <br> Addition / Subtraction <br> Next step to be underlined / highlighted and each calculation written clearly |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Multiplication of integers <br> 2. Multiplication of decimals <br> 3. Division of integers (integer answers) <br> 4. Division of integers (decimal answers) <br> 5. Division of decimals | 1. Calculations with units of money (pound / pence) <br> 2. Completing bank statements | 1. DM before AS <br> 2. Working from left to right <br> 3. Using the order of BIDMAS operations |
| 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 | Using a calculator to find basic percentages (multiplier method) Using the S-D button | 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 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 - Multiplying and dividing positive integers | Numeracy focus - Understanding terminology (credit, debit, balance), using a calculator to complete bank statements | Numeracy focus - DM before AS Completing powers, roots, and brackets first |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 9 

| Half Term 1 - Week 3 (WC Monday $18{ }^{\text {th }}$ September) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Contingency time KPI 9.01 Decimal manipulation Closing the Gap | RECAP of rounding to the nearest $10,100,1000$, integers and decimal places | RECAP of rounding to significant figures |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Addition and Subtraction - KPI 7.06 <br> - Multiplication and division of integers - KPI 7.08 <br> - Order of operations - KPI 7.02 <br> - Unit of measurements - KPI 8.09 | - Rounding -8.03 | - Rounding -8.03 |
| 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 zeros = Zero digits within a number that are necessary to indicate the quantity of something |
| 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, circle any significant zeros <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 | 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 1,2 and 3 significant figures <br> 2. Rounding decimals to 1,2 and 3 significant figures <br> 3. Mixed rounding to 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 | Using a calculator to find basic percentages (multiplier method) Using the S-D 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 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 | 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 significant figures <br> Recognising significant and non-significant zeros |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 9 

| Half Term 1 - Week 4 (WC Monday $25^{\text {th }}$ September) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Estimation | Bounds <br> Error intervals | Contingency time KPI 9.02 Estimation and limits of accuracy Closing the Gap |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Rounding -8.03 | - Rounding -8.03 | - Rounding -8.03 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Estimate = Roughly calculate or judge the value of something | Lower bound = The smallest value that would round to a given number Upper bound = The largest value that would round to a given number | N/A |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Round to 1 significant figure Estimate the given calculation | Think about what place value the number has been rounded to Half the place value and add / subtract this from the given bound | N/A |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Basic estimation <br> 2. Further / more complex estimation | 1. Bounds for rounding to the nearest 10,100 and 1000 <br> 2. Bounds for rounding to the nearest significant figure <br> 3. Bounds for truncation <br> 4. Mixed bounds problem solving | KPI test to be competed 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 | 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 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 - Recognising that the command word 'estimate' means we need to round first | 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 9 

| Half Term 1 - Week 5 (WC Monday $2^{\text {nd }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Using one calculation to perform another | Contingency time KPI 9.03 Related calculations Closing the Gap | RECAP of prime numbers, HCF, LCM and prime factorisation |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Multiplication and division of integers KPI 7.08 | - Multiplication and division of integers - KPI 7.08 | - Factors and multiples - KPI 7.04 <br> - Two-way tables and Venn diagrams - KPI 7.20 <br> - Primes, HCF and LCM - KPI 8.02 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Inverse = Opposite | N/A | Prime number = A number with exactly two factors Factors = A number that divides another number, leaving no remainder <br> Multiples = The product result of one number multiplied by another number <br> Common = The same |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take -agreed department approach. | Recognise and use relationships between operations <br> Multiplication and division are inverse operations | N/A | Divisibility tests for multiples of $2,10,5,3,9$ and 6 <br> Listing factors and circling the Highest Common Factor <br> Listing multiples and circling the Lowest Common Multiple <br> Using a prime factor tree to express a number as a product of prime factors (and simplifying this into index form) |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Using powers of 10 to change calculations <br> 2. Reversing multiplication and division calculations <br> 3. Given one calculation, using operation facts to find another | KPI test to be completed independently | 1. Factors and HCF <br> 2. Multiples and LCM <br> 3. Prime factorisation |
| 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 | KPI test | 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 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 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 Student specific passport / ILP strategies followed |
| Class considerations | Specific set direction where applicable | Numeracy focus - Knowing that multiplication and division are the inverse of each other, using this to write calculations forwards and backwards | Core or Extend KPI to be completed based on class focus | Numeracy focus - Listing factors of a number Listing multiples of a number |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 9 

| Half Term 1 - Week 6 (WC Monday 9 ${ }^{\text {th }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Finding the HCF and LCM from prime factorisation | Contingency time KPI 9.04 HCF and LCM of large numbers Closing the Gap | RECAP of adding and subtracting fractions and mixed numbers |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Factors and multiples - KPI 7.04 <br> - Two-way tables and Venn diagrams - KPI 7.20 <br> - Primes, HCF and LCM - KPI 8.02 | - Factors and multiples - KPI 7.04 <br> - Two-way tables and Venn diagrams - KPI 7.20 <br> - Primes, HCF and LCM - KPI 8.02 | - Fraction manipulation - KPI 7.10 <br> - Basic operations with fractions - KPI 8.04 |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | $\begin{aligned} & \text { Common = The same } \\ & \text { Product = Multiply } \end{aligned}$ | N/A | Numerator $=$ The top of the fraction Denominator $=$ The bottom of the fraction Common = The same |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Using a prime factor tree to express a number as a product of prime factors (and simplifying this into index form) <br> Using a Venn diagram to highlight common factors and using remaining factors to calculate the lowest common multiple | N/A | List multiples to find the LCM and multiply both fractions to make a common denominator |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Prime factorisation <br> 2. HCF from prime factorisation <br> 3. LCM from prime factorisation | KPI test to be completed independently | 1. Adding and subtracting proper fractions with the same denominator (and simplifying answers) <br> 2. Adding and subtracting proper fractions with different denominators (and simplifying answers) <br> 3. Adding and subtracting mixed numbers |
| 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 | KPI test | 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 | Use of the FACT button | Converting between improper fractions and mixed numbers on a calculator <br> Using a calculator to simplify fractions |
| 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 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 - Writing numbers as a product of prime factors | Core or Extend KPI to be completed based on class focus | Numeracy focus - Simplifying fractions <br> Adding and subtracting proper fractions with the same denominator <br> Adding and subtracting proper fractions with different denominators |


| Half Term 1 - Week 7 (WC Monday $16^{\text {th }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Find the reciprocal of an integer, decimal or fraction | RECAP of multiplying and dividing fractions and mixed numbers | RECAP of fraction of an amount and reverse fraction of an amount |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Fraction manipulation - KPI 7.10 <br> - Basic operations with fractions - KPI 8.04 | - Fraction manipulation - KPI 7.10 <br> - Basic operations with fractions - KPI 8.04 | - Fraction manipulation - KPI 7.10 <br> - Basic operations with fractions - KPI 8.04 |
| 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 | Improper fraction = A fraction where the numerator is larger than the denominator Proper fraction = A fraction where the numerator is smaller than the denominator | $\begin{aligned} & \text { Numerator = The top of the fraction } \\ & \text { Denominator = The bottom of the fraction } \end{aligned}$ |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Convert the integer / decimal into a fraction Invert the fraction to find the reciprocal | To multiply fractions, multiply across the numerators and across the denominators <br> To divide fractions, multiply by the reciprocal | Use a bar model to represent fraction of an amount problems <br> Divide by the denominator to find a unit fraction of an amount |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Finding the reciprocals of fractions <br> 2. Finding the reciprocals of integers <br> 3. Finding the reciprocals of decimals | 1. Multiplying fractions <br> 2. Dividing fractions <br> 3. Multiplying mixed numbers <br> 4. Dividing mixed numbers | 1. Unit fractions of amounts <br> 2. Non-unit fractions of amounts <br> 3. Reverse fractions of amounts |
| 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 the S-D button | Converting between improper fractions and mixed numbers on a calculator Using a calculator to simplify 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 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 - Finding the reciprocals of integers and fractions | Numeracy focus - Multiplying and dividing proper fractions | Numeracy focus - Using a bar model to find a fraction of an amount Using a bar model to represent reverse fraction of an amount questions |

# Barnsley Academy - Curriculum <br> Scheme of Work - 2023-24 <br> Maths - YEAR 9 

| Half Term 1 - Week 8 (WC Monday $23^{\text {rd }}$ October) |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 |
| Lesson Focus | Big Picture - success criteria. | Express one quantity as a fraction of another Work with fractions in ratio problems | Contingency time KPI 9.05 Fraction calculations Closing the Gap | RECAP <br> Closing the Gap |
| Prerequisite Knowledge | What knowledge are they building on (previous units/years)? Informs Do Now/Retrieval. | - Fraction manipulation - KPI 7.10 <br> - Basic operations with fractions - KPI 8.04 <br> - Units of measurements - KPI 8.09 | - Fraction manipulation - KPI 7.10 <br> - Basic operations with fractions - KPI 8.04 |  |
| Core Knowledge | Key terms and agreed definitions, any other key information essential to students, succeeding. In practical subjects this can include skills. | Units = Units describe length, weight, area, volume, density, and other values. Units can be imperial or metric and can be converted using conversion factors | N/A |  |
| Expert Model /Guided Practice/Agreed Approach (Procedural Knowledge) | Name the steps that student need to take - agreed department approach. | Ensure units are the same before writing one quantity as a fraction of another <br> Use a bar model to represent ratio problems and use these to express parts as fractions | N/A |  |
| Independent Practice | The task and reference back to the Big Picture Slide | 1. Express one quantity as a fraction of another (same units) <br> 2. Express one quantity as a fraction of another (different units) <br> 3. Work with fractions in ratio problems | KPI test 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 | KPI test |  |
| Calculator Usage | Use of calculator functions | N/A | Converting between improper fractions and mixed numbers on a calculator <br> Using a calculator to simplify fractions Using the S-D 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 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 <br> Clear steps named for students to follow independently <br> Student specific passport / ILP strategies followed |  |
| Class considerations | Specific set direction where applicable | Numeracy focus - Expressing one quantity as a fraction of another Writing each part of a ratio as a fraction of the total | Core or Extend KPI to be completed based on class focus | Teacher to select most appropriate topic to teach based on class data (Do Now / Fluency / KPI tests / Live marking) |

