DIVISION Master	BODMAS Master	PROBLEM SOLVING Master	CONVERSION Master	FRACTION Master	Decimal Master	CHALLENGE Master
Students need to be able to divide up to 4 digit numbers by 1 and 2 digit divisors using algorithm strategy. Students must show how they calculated the answer. Example: A 171	Students solve problems involving BODMAS strategies. Example: 10 x 8 - 50 + 15 = 8 + (4 x 12) - (15 x 0) =	Solving addition, subtraction and multiplication worded problems. Students must show working out. Example:	Convert fractions (lowest possible denominator) to decimals (three decimal places) to percentages (one decimal place) and vice versa. Example: 25% = 0.25 = 1/4	Addition and subtraction of fractions with related denominators. Example: $5+3+8=10520$ $9-5-2=121015$	Add, subtract, multiply and divide decimal numbers up to 3 decimal places. Example: 13.987 + 3.087 - 9.45 = 13 x 4.5 =	Students are required to complete all set tasks given with 100% accuracy in Study Ladder. Set tasks are in the Year 7 Pattern and Algebra, Decimals and Fractions unit.
Ideas: Students complete division problems that involve 1 digit divisors before moving onto 2 digit divisors. Ask students "What is a remainder?" Ensure they understand this before using two digit divisors Linking division problems to events, supports real-life understanding of Maths.	Ideas: Revise order of BODMAS. Get students to use the digits in the number 2018 to write mathematical sentences for the numbers 1 to 20. They may use all operations (× + ÷ -), brackets, powers, square root or a decimal point. As an extension, ask them to explore the year in which they were born. They have to make mathematical sentences that: - Equal to as many numbers between 1-100 The smallest number possible The largest number possible.	Ideas: Students practice 'Crazy Calculators' and/or Matheroo problems.	Ideas: Students can use a meter ruler or number line to 100 to work with percentages, fractions and decimals. Cover part of the meter ruler and pose the questions: - Estimate the percentage of the ruler that has been covered Estimate the percentage of the ruler that isn't covered and explain your reasons What can you tell me about the two estimates? (they sum to 100) - Mark 10%, 25%, 50% and 75% on a ruler and express these as fractions and decimals. Encourage students to use drawings such as a hundredths grid and materials such as bead strings, to explain how fractions, decimals and percentages represent the same amount.	Ideas: It is important that students use a range of models as well as estimation, so that they can make sense of the algorithm and the answers that they obtain. Problem: Mrs F was clearing food after the class party. She noticed that 3/8 of the chocolate cake was leftover and 7/8 of the vanilla cake was leftover. Both cakes were the same size, the only difference was the flavour. How much cake was left uneaten? The answer is 12/5, what could the question be? A builder has $3\frac{3}{4}$ meters of wood, if he cuts $1\frac{2}{4}$ meters off, what length of the wood is left?	Ideas: Use BODMAS problems with decimal numbers.	Ideas:

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Online Resources:	Online Resources:	Online Resources:	Online Resources:	Online Resources:	Online Resources:	Online Resources:
Videos to Watch: Dividing a Whole Number by a Decimal - Maths with Mr J: https://www.youtube.co m/watch?v=OH7elU1ux0 c How to Divide a Decimal by a Decimal - Maths with Mr J: https://www.youtube.co m/watch?v=Val4TmjHXR Y Practice: Who Wants to Be a Hundredaire: http://www.math-play.co m/Division-Millionaire/divi sion-millionaire-game_ht ml5.html Drag and Drop Online: https://mrnussbaum.com /drag-n-drop-math-online	Videos to Watch: Maths Antics Order of Operations: https://www.youtube.co m/watch?v=dAgfnK528R A Practice: Order Ops: https://mrnussbaum.com /order-ops-online-game High Stakes Heist: https://www.abcya.com/g ames/order_of_operation § Millionaire Game: https://www.math-play.c om/Order-of-Operations- Millionaire/order-of-opera tions-millionaire.html Math Frog: https://cemc2.math.uwat erloo.ca/mathfrog/english /kidz/order.shtml	Videos to Watch: Solving Worded Problems: https://www.youtube.com /watch?v=N_8srGGX0kk Practice:	Videos to Watch: Mr J: https://www.youtube.co m/watch?v=-Xt4UDk7Kz W Math Antics: https://www.youtube.co m/watch?v=JeVSmq1Nr pw Practice: nRich Matching Fractions, Decimals and Percentages: https://nrich.maths.org /1249 Match Fractions, Decimals and Percentages: https://mathsframe.co. uk/en/resources/resour ce/120/match_fractions _decimals_and_percent ages#.UCdcd2MsCEY Ordering Fractions, Decimals and Percentages: https://mathsframe.co. uk/en/resources/resource/120/mathsframe.co. uk/en/resources/resource/139/order-fractions- decimals-and-percentages	Videos to Watch: Math Antics - Adding and Subtracting Fractions: https://www.youtube.co m/watch?v=5juto2ze8Lq Finding the Least Common Denominator: https://www.youtube.co m/watch?v=N-Y0Kvcnw 8q https://www.youtube.co m/watch?v=PZEmFSP3Z 01&t=24s Practice: Fruit Splat: https://www.sheppards oftware.com/math/fract ions/addition-game/ Speedway: https://www.mathplaygr ound.com/ASB_Speedw ay.html Maths Play: https://www.math-play. com/fractions-board-ga me/fractions-board-ga me/fractions-board-ga me_html5.html	Videos to Watch: Adding, Subtracting, Multiplying and Dividing Decimals with Mr J: https://www.youtube.co m/watch?v=UCBXoLb2lt I Practice: Decimal Math Games: http://www.math-play.c om/decimal-math-game s.html Splash Learn Decimal Games: https://www.splashlear n.com/math/divide-deci mals-games	Practice: Math Only: https://www.math-only-m ath.com/word-problems- on-multiplication.html Maths Playground: https://www.mathplaygro und.com/tb_multiplicatio n/index.html