BLACK BELT MATHS MASTER

Counting Master	Ask students to count by: 7's to 70 8's to 80 9's to 90 **Example:** 7,14,21,28…70 8,16,24,32…80 9,18,27,36…90	**Ideas:** Practise reciting the multiplication tables. Write the number pattern down. Place an object over one or two numbers and the student has to count and discover what the covered numbers are	**Online Resources:** **Bubble Skip Counting:** https://www.abcya.com/games/number_bubble_skip_counting **Fruit Splat:** https://www.sheppardsoftware.com/math/early-math/group-count-game/
Multiplication Master	Recite 7, 8 and 9 multiplication tables. **Example:** 3 groups of 7 4 groups of 8 6 groups of 9	**Ideas:** Recite the multiplication tables. Print or make a multiplication tables chart.	**Online Resources:** **Patty Paint Cars:** https://www.multiplication.com/games/play/pattys-paints-multiplication **Fish Shop:** https://www.multiplication.com/games/play/fish-shop-multiplication **Sketchers** World: https://www.multiplication.com/games/play/sketchs-world-multiplication
Mental Master	Solving addition, subtraction and multiplication problems mentally **Example:** 78 – 39 13 x 6 Half of 68 200 divided by 40	**Ideas:** Ask questions when possible Remind children to use the things they already know, such as doubles, tens mates, renaming to assist them.	**Online Resources:** **4 Cards:** https://www.lovemaths.me/operations-36 Chasing the Magic Number: https://www.lovemaths.me/operations-36
Decimal Order Master	Order decimals to thousandths on a number line. **Example:** 0.4 0.302 0.14 0.1 0.089	**Ideas:** Write decimals up to thousandths onto 7 cards. Jumble them up and get students to rearrange into order from smallest to largest. Jumble again and reverse the order, largest to smallest.	**Online Resources:** **Compare Decimals:** https://www.teacherled.com/2015/04/01/compare-decimals/ **Decimal Claw Game:** http://fluencychallenge.com/play/play-claw.html

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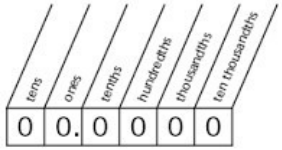
Renaming Master	Knowing that 9.32 is made of 9 ones 3 tenths 2 hundredths **Or** 93 tenths and 2 hundredths **Example:** 3 hundredths and 4 ones is.. 2 hundredths and 8 tenths is.. 3.4 is ___ ones and ___ tenths 5.06 is ___ ones,_____ tenths and ___hundredths.	**Ideas:** Ask students similar questions to the examples above. Students could use a Hundredths chart to help. 	**Online Resources:** **Squeeze:** https://www.lovemaths.me/number-36 **Mastermind:** https://www.lovemaths.me/number-36
Fraction Order Master	Students need to position fractions in order on a number line between 0 to 1. **Example:** 99/100 3/4 8/9 75/100 	**Ideas:** Write fractions on cards as above examples. Jumble them up and get students to rearrange into order on a number line between 0 to 1.	**Online Resources:** **Make Me Whole:** https://www.lovemaths.me/number-36 **Half, more or less?:** https://www.lovemaths.me/number-36
Multiplicative Master	Students need to describe a method for finding a solution that requires multiplicative thinking, that is they use repeated addition or multiplication facts. **Example:** If you have 27 dogs how many dog legs would there be altogether? How many dogs eyes?	**Ideas:** Get students to show their working out to multiplication questions. It will involve them breaking the problem into steps. Using strategies which involve multiplication / division. 27 x 4 = 108 legs 27 x 2= 54 legs	**Online Resources:** **Hit the button:** https://www.topmarks.co.uk/maths-games/hit-the-button **10 Factors:** https://www.lovemaths.me/operations-36