Supporting your child at home with learning times tables.

Dear Parents/Carers,

The new maths curriculum has a large focus on the use of manipulatives and developing children's reasoning skills to ensure that they have a good understanding across all areas of mathematics. This is already embedded at Bredhurst School and pupils are gaining in confidence to explain their maths and to prove, or disprove statements. The children are also encouraged to be fluent in their recall of number facts with daily counting and times table activities.

As you may be aware, in 2020 it will be compulsory for Year 4 children to undertake an online multiplication test (**our current Year 3 pupils**). This will be an opportunity for the children to showcase their learning and understanding within this aspect. The children need to be secure in knowing all of their tables to 12 X 12 for the assessment. As a school, we have assigned the pupils from Year 1 to Year 6 a password and log in to a program called 'Times Tables Rock Stars'. This also gives them the opportunities to become fluent and confident to recall these facts and make links, whilst inventing for themselves, an Avatar. **Please see your child's details attached to this letter**.

For you as parents, we would like to share with you how this is taught across the school so that you can see how multiplication progresses at Bredhurst. With a few ideas of what you could do to support at home!

	Curriculum coverage	Ideas at home
EYFS (YR)	To solve problems, including doubling and halving.	**Practical ideas**: Sharing party food between friends. How many cakes do they get each? Matching socks in pairs, then counting how many socks as each pair is added. Begin counting in 2's. Cutting fruit and vegetables in half. Putting 4 objects into a bowl. Repeat with a second bowl – are they the same? How many have you got now?
Year 1	To solve one-step problems involving multiplication and division and using arrays and pictorial representations with support. To count in steps of **2, 5 & 10** with fluency. **Key Vocabulary** What do I add to 5 to make 10? What is 10 take away 6? What is 3 less than 10? How many more than 2 is 10?	**Practical ideas:** If I share 6 apples with my friend, how many do we get each? If I put 2 pencils in three different pots, how many pencils are there altogether? There are 4 flowers in a vase. Each flower has 5 petals. How many petals are there altogether? Counting pairs of shoes in 2's. Putting a row of hands together and counting the total number of fingers by counting in 5's. Put Lego bricks in groups of 10. Children to count how many there are by counting in 10's to find the answer.

Year 2	To recall and use number facts for **2, 5 & 10** times tables. To make links with corresponding division facts. Eg: 2 X 5 = 10 5 X 2 = 10 10 ÷ 5 = 10 10 ÷ 2 = 5 To solve problems using arrays, repeated addition and mental methods. Eg 3 + 3 + 3 + 3 = 12, is the same as, 3 X 4 = 12 To understand that multiplication can be done in any order but division of one number by another cannot. **Key Vocabulary** What is 5 multiplied by 7? What is 5 times 9? What is 60 divided by 5?	Counting in steps of 2, 5 & 10 when walking up and down the stairs. Stop at points and ask children what will come next? How do they know? Look for patterns when counting in 2, 5 & 10. What do they notice about the digits? Sorting toys into equal groups – how many are there altogether? Write this as sum using symbols X and = . Eg 3 groups of 4 toys: 3 X 4 = 12 Using tins in kitchen cupboards. Grouping them and then counting in different steps to find totals. Sharing objects amongst containers or friends or toys – how many do they get each?

Year 3	To recall and use multiplication and division facts for **3, 4 & 8** times tables.
	Eg 5 X 3 = 15
	     3 X 5 = 15
	   15 ÷ 3 = 5
	   15 ÷ 5 = 3
	To write and calculate multiplication and division statements using tables that I know.
	
	Key Vocabulary
	What is 8 multiplied by 6?
	What is 8 times 8?
	What is 24 divided by 8?
		As above for Year 2 but using 3, 4 & 8 tables.
		
		Recording division facts using correct symbols (÷, =)
		
		If I have 9 cakes and three plates, how many cakes will I put onto each plate? If I want to share 25 grapes with 5 people, how many will they get each?

Year 4	**To recall multiplication and division facts up to 12 X 12.** To use place value and derived facts to multiply and divide mentally. To recognise and use factor pairs. To multiply two and three digit numbers by a one digit using formal written layout. **Key Vocabulary** What is 5 multiplied by 10? What is 10 times 0.9? What is 700 divided by 70? hundreds, tens, units tenths, hundredths	Ask children to find all of the factor pairs for a number Eg factor pairs (multiples) for 12 are, 1, 2, 3, 4, 6, 12 **(1 x 12, 2 X6, 3 X4, 4X3, 6X2, 12 x1 – all equal 12)** Using real context situation where measurements and quantities need to be calculated. Eg: We need 200m of new fence panels for school. Each panel is 40m long, how many panels do we need?

		How many different outfits can I make if I have 4 dresses and 5 hats? Use actual Resources to solve it.
Year 5	Multiply and divide numbers mentally using known facts. Multiply four digit numbers by a one digit number using formal written methods. To recognise and use squared and cubed numbers with correct notations. Multiply and divide whole numbers involving decimals by 10, 100 & 1000. **Key Vocabulary** Can you find a factor of 28? Find two numbers whose product is 20. I know that 6 is a factor of 72 because 6 multiplied by 12 equals 72.	Finding common factors for two different numbers. Eg 5 and 10 Common factors are 1, 5 (both 1 and 5 can be timed or divided with both 5 and 10. Making cubes with Lego to find cubed numbers. Can you make a cube with 27 bricks? (eg 3 x 3 x 3) Try different numbers to see if it works or not.
Year 6	Identify common factors, common multiples and prime numbers. Multiply and divide four digit numbers by a two digit number using formal written methods. Perform mental calculations using larger numbers. Using estimation to check answers to calculations with some degree of accuracy. **Key Vocabulary** prime number composite number factor multiple	Using real life contexts to estimate measures or quantities using multiplication and division facts. Mental calculations quizzes during car journeys using numbers found on vehicle number plates.

Please feel free to speak to class teachers if you need any further help or guidance in supporting your child at home. Our aim is to ensure that every child will be fluent in their recall of number facts, with secure understanding, so that they can achieve their full potential in maths. As parents and carers, your role is vital in helping us to support your child along this journey.

Claire Harvey
Maths Lead Bredhurst CE Primary School