HOW TO HELP WITH MATHS AT HOME

Parents often ask us how they can help their children with maths. The teachers have compiled a list, by year group, of the essential knowledge that you can support your child with at home. It will really help your child, and increase his or her confidence in maths, if he or she has a solid understanding of basic number facts to build upon.

Maths idea…	For example…
RECEPTION	
Read, count and order numbers to 20	1, 2, 3, 4… Count actual objects teddies, railings on a fence etc
Say the number that is one more or one less than a given number to 20	What is 1 more than 11? Is 19 one less than 20? I'm thinking of the number that is 1 more than 7, what is it?
Add and subtract two single digit numbers	6 + 7 = 13, 2 + 2 = 4
Talk about sharing, doubling and halving	How many sweets will we have if we share them between us equally?
YEAR 1	
Count forwards and backwards in ones to 20, then other multiples of 10 (30,40,50 etc), then 100.	1, 2, 3… Count actual objects – railings on a fence, number of grapes etc…
Know the pairs of numbers that add together to make all the numbers to 10, then 20 (These are called Number Bonds).	0+3=3, 1+2=3, 2+1=3, 3+0=3 0+12=12, 1+11=12, 2+10=12, 3+9=12, 4+8=12…
Tell the time to the hour (o'clock) and half hour (half past) on a clock with hands (not digital).	What's the time when the big hand points to the 12 / 6?
Count in 2s, 5s and 10s	2, 4, 6, 8… 5, 10, 15… 10, 20, 30…
Read and write numbers to 100 in numerals and numbers to 20 in numerals and words.	34, 73, 88 15 and fifteen, 7 and seven

Maths idea…	For example…
YEAR 2	
Count forward and backwards in steps of 2, 3 and 5 from 0 and 10 from any number.	0, 2, 4, 6, 8, 10, 8, 6, 4, 2, 0 2, 5, 8, 11, 14, 17, 20
Know the 2,5,10 then 3 x tables	1 x 3 = 3, 2 x 3 = 6, 3 x 3 = 9…
Know the pairs of numbers that add together to make all the numbers to 10, then 20, then 100.	1 + 9 = 10, 2 + 8 = 10… 11 + 9 = 20, 12 + 8 = 20… 40 + 60 = 100, 12 + 88 = 100…
Tell time to 15 mins (quarter past and quarter to), then to 5 minutes (five past, ten past, twenty-five to etc) past/to the hour on a clock with hands.	What's the time when the big (hour) hand is on the 3 and the little (minute) hand is just past the two?
Mentally add numbers from 1-9 to other single digit, then two-digit numbers.	Start with things like 9 + 6, move on to 23 + 6, then 47 + 8.
Read and write numbers to at least 100 in numerals and words.	11 and eleven, 54 and fifty-four
YEAR 3	
Count forwards and backwards steps of 4, 8, 50 and 100 from 0.	0,4,8,16,20… 50,100,150,200…
Learn the 4, 6 and 8 x tables.	1x4=4, 2x4=8…
Mentally add or subtract 10 from a 2-digit or 3-digit number.	63 − 10 = 53, 77 + 10 = 87 134 + 10 = 144, 186 − 10 = 176
Tell the time, minutes past/minutes to the hour on an analogue clock. Know what am and pm mean.	What do the little marks between each of the numbers mean? Which hand shows the minutes? Look at the clock and ask the time. Count the minutes past/to.
Calculate the change from 50p and £1 and work out the coins needed for an amount.	If your sweets cost 36p, how much change would you get from 50p/£1? If you were going to pay with the exact money, which coins could you use?
Read, write order and compare numbers to 1,000	99, 100, 101 Ninety-nine, one hundred, one hundred and one…. Which is bigger 102 or 120?

Maths idea…	For example…
YEAR 4	
Count forwards and backwards in steps of 6,7,9,25 and 1000.	6,12,18… 25, 50, 75, 100 Start at different numbers – 2014, 3014, 4014…
Learn the 7,9,11 and 12 x tables and related division facts	1x7=7, 2x7=14, 3x7=21… 49÷7=7, 42÷7=7=6, 35÷7=5…
Know the pairs of numbers that add together to make all the numbers to 100 and the related subtraction facts.	If 63 + 37 = 100 then I know 100 – 63 is 37.
Read, write and convert time between analogue and 12 and 24 hour digital clocks.	What would 10 o'clock in the morning be on a 12-hour digital clock? What would 1 o' clock in the afternoon be on the 24-hour clock?
Read, write order and compare numbers to 10,000	3,099, 3,100, 3,101… Three thousand and ninety-nine… Which is greater 4,179 or 4,719? Why? Order these numbers from smallest to largest: 9,876, 9,678, 9,768, 8,796, 8,967…
YEAR 5	
Count forwards and backwards in powers of 10 (10,100,1000,10,000 etc) to 1,000,000	1,000, 2,000, 3,000…. 130,000, 120, 000, 110, 000, 100,000, 90,000…
Know the multiplication and related division facts for all times tables up to 12x12	1x12=12, 2x12=24, 3x12=36 120÷12=10, 132÷12=11, 144÷12=12… If 11 multiplied by 7 is 77, then 77 divided by 7 is 11.
Convert units of measurement: g/kg, ml/litres, mm/cm/m/km, seconds/minutes/hours	100g=0.1kg, 200g=0.2kg… 1 second one is one sixtieth of one minute…
Tell the time, use timetables and understand the duration of time.	If the bus leaves Kendal at 09:40 and arrives in Sedbergh at 10:25, how long does the journey take?
Calculate the cost of shopping and change to be given.	Ask your child to work out if they have enough money to buy sweets etc. Have you got the right amount of change?
Know the pairs of numbers that add together to make all the numbers to 100 and the related subtraction facts.	54+21=75, 75–21=54… 35+65=100, 100–65=35…
Read, write, order and compare numbers to 1,000,000	700, 674, 700,675, 700676… Seven hundred thousand, six hundred and seventy-four…

Maths idea…	For example…
YEAR 6	
Know the multiplication and related division facts for all times tables up to 12x12	If 7 x 6 = 42, then 42 divided by 6 is 7.
Calculate percentages of amounts: 50%, 25%, 10%, 5%	What is 25% of £4.84? What is 50% of £16.76?
Tell the time, use timetables and understand the duration of time.	If the train leaves Oxenholme station at 14.05 and arrives in Lancaster at 14.31, how long does the journey take?
Know the pairs of numbers that add together to make all the numbers to 100 and the related subtraction facts (or decimals that add together to make 1).	54+21=85 so 85-21=54 If 22 plus 78 is 100, then 100 subtract 78 is 22… 0.37+0.63=1, 1-0.63=0.37…
Read, write, order and compare numbers to 10,000,000	4,374,953, 4,374,954, 4,374,955… Four million, three hundred and seventy-four thousand, nine hundred and fifty-three. Which is bigger 5, 861, 521 or 5,681,521? Write these numbers in order, largest to smallest: 9,481,352, 9, 841,352, 9,814,352, 9,418,532, 9,841,532…