



Teaching Times-Tables

Times Table	Patterns	Suggested activities/teaching ideas		
All	How to Teach Maths: Guides for Parents - Twinkl Homework Help			
	Connect-4-times-tables.pdf			
	How to Teach Times Tables So Pupils Learn Instant Recall From KS1 To KS2 (thirdspacelearning.com)			
	Download Teaching Resources (tes.com)			
	How To Teach Multiplication Tables 7 Ways - Top Notch Teaching			
	PX_MathsContent_BK_TimesTablesInSchool_01_CH.indd (oxfordowl.co.uk)			
	 Dice- Roll 2 dice and at speed, multiply the 2 sides together Dominoes- Multiply each side of the domino together 			
2s	 All multiples of 2 have a pattern of 2, 4, 6, 8, or 0 in the ones place. When multiplying ANY number by 2, the result is EVEN. When you multiply an odd number by 2, the "leftover" partner in each number will be able to partner up together. For example, the 7th piece in the number 7 can partner up with the 7th piece of the other 7 when 7 is doubled/multiplied by 2. When looking at numbers 1-10, 11-20, 21-30, etc. even numbers/even columns alternate with odd numbers/odd columns. There are 5 even numbers and 5 odd numbers in each range of 10 numbers (which is ½ or 50/50). Even if the tens place or hundreds place is odd, a number can be even. In an even number, everyone has a partner where as with an odd number, 1 number will not have a 	The 2 times table - BBC Bitesize https://youtu.be/WRf-YTU2wlY		
3s	 Multiples of 3 have a pattern of 3, 6, 9, 2, 5, 8, 1, 4, 7, 0 in the ones place. Every other multiple of 3 is even. The digits in multiples of 3 add up to a multiple of 3 (36 = 3 + 6, 111 = 1 + 1 + 1, etc.) 	https://youtu.be/jJG4ZgJTOAs KS2 Maths: The 3 Times Table - BBC Teach		

	All EVEN multiples of 3 are also a multiple of 6 (the even multiples of 3 are the 6 "count by's")	
4s	 Multiples of 4 have a pattern of 4, 8, 2, 6, 0 in the ones place. Add 20 to any multiple of 4 and you have another multiple of 4 (follow the columns on a 120's chart to see this in action!). All multiples of 4 are 4 away from each other. Each range of 10 alternates with 2 multiples of 4, 3 multiples of 4. (1-10 contains 2 multiples of 4; 11-20 contains 3 multiples of 4.) 	https://youtu.be/uXseFbjgGI8 First: 4 Times Table - BBC Teach
5s	 Multiples of 5 have a pattern of 5, 0 in the ones place. Every other multiple of 5 is even; every other multiple of 5 is odd. Every range of 10 contains two multiples of 5. Every other multiple of 5 is halfway between a 10. 	https://youtu.be/A8cCyQTkRgI KS1 Maths: The 5 Times Table - BBC Teach
6s	 Multiples of 6 have a pattern of 6, 2, 8, 4, 0 in the ones place. When a multiple of 2 and 3 overlap, you get a multiple of 6. All multiples of 6 are even numbers. All multiples of 6 are 6 away from each other. Multiples of 6 are every other multiple of 3. 	https://youtu.be/8bbhYadGSPw KS2 Maths: The 6 Times Table with Fred the Red - BBC Teach
7s	 Multiples of 7 have a pattern of 7, 4, 1, 8, 5, 2, 9, 6, 3, 0 in the ones place. Besides multiples of 9, 7's have the greatest variety of numbers represented in the ones place—hitting every digit from 0 to 9 along the way! —> Have students continue the pattern beyond 119 to see how long it goes. The ones place is 3 less with each increasing multiple (7, 4, 1 (or 11), 8, 5, 2 (or 12), 9, etc). 	https://youtu.be/Fwg9Zyz7QVo KS2 Maths: The 7 Times Table with Moonbeam - BBC Teach
8s	 Multiples of 8 have a pattern of 8, 6, 4, 2, 0 in the ones place. All multiples of 8 are even. All multiples of 8 are multiples of 2 and 4. To multiply a number by 8, you can double-double-double the number. (Example: 4 x 8 —> 4 doubled 	https://youtu.be/KqqufPdi7j0 KS2 Maths: The 8 Times Table with Filbert Fox - BBC Teach

	 = 8, 8 doubled = 16, 16 doubled = 32. 4 x 8 = 32) • 8's only contain one multiple in each 10, except when the ones place is a zero like in 40 and 80. These tens have two
9s	 multiples of 8. Multiples of 9 have a pattern of 9, 8, 7, 6, 5, 4, 3, 2, 1, 0 in the ones place. https://youtu.be/WiKqUNzuGXw
	 All multiples of 9 are one less than 10 away from each other. (So, we can add 10, subtract 1 to find the next multiple of 9.) KS2 Maths: The 9 Times Table - BBC Teach
	 A multiple of 9 can be even or odd. 9 is odd, but the result of 9 x 2 (or 9 + 9) is even. Multiples of 9 alternate—odd, even, odd,
	 even, etc. A multiple of 9 must also be a multiple of three because 9 is made up of 3 x 3. The digits in a multiple of 9 add up to a multiple of 9 (9, 18, 27, etc) . The digits
	 of every multiple of 9 up to 90 add up to 9. As the tens digit increases by 1, the ones digit decreases by 1.
10s	 All multiples of 10 have a zero in the ones place When multiplying by a 10, the other factor that was multiplied moves to the left one space (or one place value space to the left). All multiples of 10 are also multiples of 2 and 5. Multiples of 10 are always even because 10 is even (therefore, many groups of 10 will remain even.) This also means that multiples of 10 are divisible by 2. All multiples of 10 are also divisible by 5.
11s	 The ones place and the tens place for all multiples of 11 under 100 are the same. The ones place increases by 1 each time and then starts again after 0. Each multiple is one less away from the next 10. 11 is 9 away from 20, 22 is 8 away from 30, 33 is 7 away from 40, and so on. After 110, the next multiple is 121 and the pattern starts again.
12s	 All multiples of 12 are even All multiples of 12 are multiples of 2, 3, 4, and 6 In the ones place, the pattern 2, 4, 6, 8, 0 repeats. This is because when you are https://youtu.be/G7P6de6PQCs KS2 Maths: The 12 Times Table with Chirpy Cockerel - BBC Teach

- adding 12, the tens increase each time, and the ones place counts by 2's When counting by 12's, no multiples are in the 50's or the 110's

Concrete resources to support learning

Resource	How it can support
Dienes	 Building numbers to spot patterns Repeated addition 10 times tables/counting in 10s
Bead string	 Building numbers to spot patterns Repeated addition 10 times tables/counting in 10s Making connections between times tables (e.g when teaching the 4 times tables, practise the 2s first by counting 2 beads at a time on the string, then support children in making the connection that they double the amount of beads each time)
	 Making groups of numbers (e.g 6 piles of 2 for 6 x 2) Pattern spotting
Counting stick	Breaking up products into factors-represent a factor on each interval
Counting stick Bar model	Spotting patterns and making connections (e.g noticing which numbers are doubles and halves of each other)

Numican	Counting in multiples (e.g when learning the five times tables, the children can pick up the necessary number of five-pieces and use them to help them count in jumps of five)
Numicon	
100 001	Building times tables to spot patterns (e.g when practising the 11s, children know to add 1 ten counter and 1 ones counter each time. They can then calculate mentally and know to add 1 ten to the 10s column and 1 one to the ones column)
Place value counters	