

**Rockstar Day** 

## Curriculu

m

# Expectatio

ns

#### **Year 1** Count in multiples of 2, 5 and 10. Recall and use all doubles to 10 and corresponding halves. Year 2 | Recall and use multiplication and division facts for the 2, 5 and 10 times tables including recognizing odd and even numbers. Recall and use multiplication and Year 3 division facts for the 3, 4 and 8 times tables. Year 4 Recall and use multiplication and division facts for tables up to 12 x 12 Revision of all times tables and Year 5 division facts up to 12 x 12 Revision of all times tables and Year 6 | division facts up to 12 x 12







## Why are times tables so Times Tables knowledge underpins much of the primary mathematics curriculum.

 Mastering times tables and having the ability to quickly recall known facts is a necessary step to approaching more

tim	es tables.		
Cube	Factor	rs	
Number s Ratio	Multiplicati on	Fraction s Decimal	Prime Number S
Commo n Multipl	Division Square Number	s Area	Place Value

Key Stage 2 topics which require

# How do we teach times tables at Bishop Martin?

- Explicit teaching through the White Rose (Our curriculum)
  - Regular reviews
- Multiplication lessons weekly
  - Regular practice
  - Times Tables Rockstars



#### **The Number Sense Approach**

Pupils who find times tables difficult, tend to choose inefficient methods to retrieve facts. This increases cognitive load and slows the pace of learning.

e.g. 8 x 6 (Unable to recall the fact)

Begins to skip count from zero using fingers (0, 8, 16...)

#### **The Number Sense Approach**

- By teaching patterns and exploring the relationships between different times tables and by learning all the associated division facts, we aim to equip pupils with the most efficient methods.
- The order in which we teach times tables allows pupils to see

				4	5	6	7	8	9			
		-	3	4	5	6	7	8	9	10	'n	
	2	4	6	8	10	12	14	16	18	20	22	
	3	6	9	12	15	18	21	24	27	30	33	3£
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
2	8	16	24	32	40	48	56	64	72	80	88	9F
	9	18	27	36	45	54	63	72	81	90	90	Γ
		20	30	40	50	60	70	80	90	100	F	
		٦	33	44	55	66	77	88	C			
				18	60	72	84					

### **Bridging Steps**

- By using known facts as bridging steps, we can make connections in learning.
- Square numbers and the 10 times table are excellent bridging step.
- These strategies help speed up pupils recall and avoids

	3	4	5	6	7	8	9	10	U
	3	1	in the second						1.000
	-	4	5	6	7	8	9	10	1
	6	8	10	12	14	16	18	20	2
6	9	12	15	18	21	24	27	30	3
8	12	16	20	24	28	32	36	40	4
10	15	20	25	30	35	40	45	50	5
12	18	24	30	36	42	48	54	60	6
14	21	28	35	42	49	56	63	70	7
16	24	32	40	48	56	64	72	80	8
•	27	36	45	54	63	72	81	90	9
	2	40	50	60	70	80	90	100	11
		×	55	66	77	88	99	110	12
				72	84	96	108	120	13
	6 8 10 12 14	6      6      6      6      9      8    12      10    15      12    18      14    21      16    24      1    27      1    1	6    8      6    9    12      6    9    12      8    12    16      10    15    20      12    18    24      14    21    28      16    24    32      16    24    32      16    24    32      16    24    32      16    24    32      16    24    32      16    24    32      16    34    34      16    34    34      17    36    36      1    40    34	10      6    8      10    9      12    15      8    12      10    15      10    15      10    15      110    15      12    18      14    21      14    21      15    30      16    24      27    36      40    40      15    40      16    24      17    36      45    45      16    50      17    40      55	6    8    10    12      6    9    12    15    18      8    12    16    20    24      10    15    20    25    30      12    18    24    30    36      14    21    28    35    42      16    24    32    40    48      16    24    32    40    48      15    27    36    45    54      16    24    32    60    45      16    24    32    60    60      16    54    55    66    55	3    4    3    6    7      6    8    10    12    14      6    9    12    15    18    21      8    12    16    20    24    28      10    15    20    25    30    35      12    18    24    30    36    42      14    21    28    35    42    49      14    21    28    35    42    49      16    24    32    40    48    56      16    24    32    40    48    56      16    24    32    60    70    55    66    77      16    24    55    66    77    55    66    77      17    40    50    60    70    7    72    84	6      8      10      12      14      16        6      9      12      15      18      21      24        8      12      16      20      24      28      32        10      15      20      25      30      35      40        12      18      24      30      36      42      48        10      15      20      25      30      35      40        12      18      24      30      36      42      48        14      21      28      35      42      49      56        16      24      32      40      48      56      64        16      24      32      40      48      56      64        16      24      32      40      48      56      64        17      40      50      60      70      88        17      40      55      66      77      88        72      8	3      4      3      6      7      6      9        6      8      10      12      14      16      18        6      9      12      15      18      21      24      27        8      12      16      20      24      28      32      36        10      15      20      25      30      35      40      45        12      18      24      30      36      42      48      54        14      21      28      35      42      49      56      63        16      24      32      40      48      56      64      72        16      24      32      40      48      56      64      72        1      40      50      60      70      80      90        1      40      50      66      77      88      99        1      55      66      77      88      96      108	3      4      5      6      7      6      9      10        6      8      10      12      14      16      18      20        6      9      12      15      18      21      24      27      30        8      12      16      20      24      28      32      36      40        10      15      20      25      30      35      40      45      50        12      18      24      30      36      42      48      54      60        14      21      28      35      42      49      56      63      70        16      24      32      40      48      56      64      72      80        1      27      36      45      54      63      72      81      90        1      27      36      45      54      63      72      81      90        1      27      36      50      66

#### There are not 144 facts to

х	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

x	1	2	3		5	r	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100



Children start with their multiples of 1, 2, 5 and 10. Next are the multiplies of 3 and 6 then 4 and 8.



This leaves a small number of facts that require explicit focus.







# How can you help at home?

- Regular practice using
  different resources little
  and often. TTRS, MyMaths,
  Maths Frame, Hit the Button,
  BBC Maths Games.
- Make it part of your family's day or have a family competition.
- Engago with TTPS Battles



## How can you help at home?

- Practice skip counting forwards and backwards.
- Start at different points when recalling times tables.
- Mix in some division facts.
- Flash cards.
- Display facts around the house.
- Look for ways to remember the tricky ones. 56 = 7 x 8

#### Where to practice when on Times Tables Rockstar

- Gig: Assessment
- Garage: Practice Personalised tables based on knowledge
- Jamming: Timer free game with choice of tables
- Studio: 1 minute game across all tables improves recall and gives rock status
- Festival: Take on pupils from around the world (12x12)
- Rock slam: 1 minute game allowing pupils to challenge other children in school
- Soundcheck: Similar to multiplication check
- Arena: Live classroom game adapted to each child's level

