



# Maths Home Learning at St Pauls Primary School

## Key Instant Recall Facts

### Year 6 Autumn 1



**Target: I am confident in all times tables up to 12 x 12**

**I can recognise square and cube numbers within 100**

By the end of this half term, children should know the following facts. The aim is to recall these facts instantly.

Multiplication Square												
X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
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
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

### Square Numbers

1 <sup>2</sup>	1	×	1	=	1
2 <sup>2</sup>	2	×	2	=	4
3 <sup>2</sup>	3	×	3	=	9
4 <sup>2</sup>	4	×	4	=	16
5 <sup>2</sup>	5	×	5	=	25
6 <sup>2</sup>	6	×	6	=	36
7 <sup>2</sup>	7	×	7	=	49
8 <sup>2</sup>	8	×	8	=	64
9 <sup>2</sup>	9	×	9	=	81
10 <sup>2</sup>	10	×	10	=	100
11 <sup>2</sup>	11	×	11	=	121
12 <sup>2</sup>	12	×	12	=	144
13 <sup>2</sup>	13	×	13	=	169
14 <sup>2</sup>	14	×	14	=	196
15 <sup>2</sup>	15	×	15	=	225

The product of a number multiplied by itself.  
e.g. 10 × 10 = 100  
which can be shown as:  
10<sup>2</sup> = 100  
10 squared = 100  
10 × 10 = 100

### Cube Numbers

1 <sup>3</sup>	1	×	1	×	1	=	1
2 <sup>3</sup>	2	×	2	×	2	=	8
3 <sup>3</sup>	3	×	3	×	3	=	27
4 <sup>3</sup>	4	×	4	×	4	=	64
5 <sup>3</sup>	5	×	5	×	5	=	125
6 <sup>3</sup>	6	×	6	×	6	=	216
7 <sup>3</sup>	7	×	7	×	7	=	343
8 <sup>3</sup>	8	×	8	×	8	=	512
9 <sup>3</sup>	9	×	9	×	9	=	729
10 <sup>3</sup>	10	×	10	×	10	=	1000
11 <sup>3</sup>	11	×	11	×	11	=	1331
12 <sup>3</sup>	12	×	12	×	12	=	1728
13 <sup>3</sup>	13	×	13	×	13	=	2197
14 <sup>3</sup>	14	×	14	×	14	=	2744
15 <sup>3</sup>	15	×	15	×	15	=	3375

Formed by multiplying a digit by itself 3 times  
e.g. 10 × 10 × 10 = 1000  
which can be shown as:  
10<sup>3</sup> = 1000  
10 cubed = 1000  
10x10x10 cube

### KEY VOCABULARY

### Top tips

Cube  
Square  
Multiply  
Divide

Chanting – practice saying the whole number sentence out loud  
Chant the square and cubed numbers  
Play games!

- ✓ Buy one get three free! If your child knows one fact (e.g. 3 × 14 = 12), can they tell you the other three facts in the same fact family (e.g. 4 × 3 = 12, 12 ÷ 3 = 4, 12 ÷ 4 = 3)? Then ask for additional facts using multiples of 10 and decimals e.g. 40 × 3 = 120, 120 ÷ 30 = 4, 0.4 × 3 = 1.2, 1.2 ÷ 0.3 = 4
- ✓ Create a board game or a treasure hunt related to your weakest times table (include × and ÷)
  - ✓ Make some flashcards and ask a family member to test you!
  - ✓ Play Ping Pong with a partner: Take it in turns to count up in multiples of a number.
  - ✓ Throw or bounce a ball with one person shouting a multiple then throwing the ball to their partner who shouts back the factors.

### MOST USEFUL WEBSITES



- <https://www.bbc.co.uk/teach/super movers/times-table-collection/z4vv6v4>
- <https://classroom.thenational.academy/units/multiplication-and-division-70b8>
- <https://www.topmarks.co.uk/maths-games/7-11-years/times-tables>
- <https://www.timestables.co.uk>
- <https://mathsframe.co.uk/en/resources/category/7/multiplication-and-division>