



Year 1 – Autumn 1

I know number bonds for each number to 6.

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

0 + 1 = 1	0 + 4 = 4	0 + 6 = 6
1 + 0 = 1	1 + 3 = 4	1 + 5 = 6
	2 + 2 = 4	2 + 4 = 6
0 + 2 = 2	3 + 1 = 4	3 + 3 = 6
1 + 1 = 2	4 + 0 = 4	4 + 2 = 6
2 + 0 = 2		5 + 1 = 6
	0 + 5 = 5	6 + 0 = 6
0 + 3 = 3	1 + 4 = 5	Key Vocabulary
1 + 2 = 3	2 + 3 = 5	What is 3 add 2?
2 + 1 = 3	3 + 2 = 5	What is 2 plus 2?
3 + 0 = 3	4 + 1 = 5	What is 5 take away 2?
	5 + 0 = 5	What is 1 less than 2?

They should be able to answer these questions in any order, including missing number questions e.g. 3 + ____ = 5 or 4 - ___ = 2.



Year 1 – Autumn 2

I can count forward and backward in steps of 2, 5 and 10.

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

Children should be able to start at zero and then count on										
0	2	4	6	8	10	12	14	16	18	20
0	5	10	15	20	25	30	35	40	45	50
0	10	20	30	40	50	60	70	80	90	100
When confident they should try counting backwards steps from any of										

the numbers above.

Key Vocabulary

How many tens can you count?

How many 2's do we count to make 10?



Year 1 – Spring 1

I know doubles and halves of numbers to 10.

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

0 + 0 = 0	½ of 0 = 0
1 + 1 = 2	½ of 2 = 1
2 + 2 = 4	½ of 4 = 2
3 + 3 = 6	½ of 6 = 3
4 + 4 = 8	½ of 8 = 4
5 + 5 = 10	½ of 10 = 5
6 + 6 = 12	
7 + 7 = 14	
8 + 8 = 16	
9 + 9 = 18	
10 + 10 = 20	

Key Vocabulary

What is **double** 9?

What is **half** of 6?



Year 1 – Spring 2

I know number bonds to 10.

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

0 + 10 = 10	2 + 8 = 10	4 + 6 = 10
10 + 0 = 10	8 + 2 = 10	6 + 4 = 10
10 - 10 = 0	10 - 8 = 2	10 - 6 = 4
10 - 0 = 10	10 – 2 = 8	10 - 4 = 6
1 + 9 = 10	3 + 7 = 10	5 + 5 = 10
9 + 1 = 10	7 + 3 = 10	10 - 5 = 5
10 – 9 = 1	10 – 7 = 3	Key Vocabulary
10 – 1 = 9	10 – 3 = 7	What is 3 add 2?
		What is 2 plus 2?
		What is 5 take away 2?
		What is 1 less than 4?

They should be able to answer these questions in any order, including missing number questions e.g. 6 + ____ = 10 or 10 - ____ = 3.



Year 1 – Summer 1

I know days of the week, months of the year and seasons.

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

Children need to know the months of the year in order and also talk about the seasons of the year and the order they happen.

January

February

March

April
Key Vocabulary

May
12 months in one year.

June
Four seasons.

July
Four seasons.

August
September

October
September

November
Jocember

Spring, Summer, Autumn, Winter



Year 1 – Summer 2

I know number bonds for each number to 10.

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

0 +7 = 7	0 + 8 = 8	0 + 9 = 9	0 + 10 = 10
1 + 6 = 7	1 + 7 = 8	1 + 8 = 9	1 + 9 = 10
2 + 5 = 7	2 + 6 = 8	2 + 7 = 9	2 + 8 = 10
3 + 4 = 7	3 + 5 = 8	3 + 6 = 9	3 + 7 = 10
4 + 3 = 7	4 + 4 = 8	4 + 5 = 9	4 + 6 = 10
5 + 2 = 7	5 + 3 = 8	5 + 4 = 9	5 + 5 = 10
6 + 1 = 7	6 + 2 = 8	6 + 3 = 9	6 + 4 = 10
7 + 0 = 7	7 + 1 = 8	7 + 2 = 9	7 + 3 = 10
	8 + 0 = 8	8 + 1 = 9	8 + 2 = 10
		9 + 0 = 9	9 + 1 = 10
			10 + 0 = 10

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?

They should be able to answer these questions in any order, including missing number questions e.g. 1 + ____ = 10 or 9 - ____ = 8.



Year 2 – Autumn 1

I know number bonds to 20.

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

0 + 20 = 20	20 + 0 = 20	20 – 0 = 20	20 - 20 = 0
1 + 19 = 20	19 + 1 = 20	20 – 1 = 19	20 – 19 = 1
2 + 18 = 20	18 + 2 = 20	20 – 2 = 18	20 – 18 = 2
3 + 17 = 20	17 + 3 = 20	20 – 3 = 17	20 – 17 = 3
4 + 16 = 20	16 + 4 = 20	20 - 4 = 16	20 – 16 = 4
5 + 15 = 20	15 + 5 = 20	20 – 5 = 15	20 – 15 = 5
6 + 14 = 20	14 + 6 = 20	20 - 6 = 14	20 – 14 = 6
7 + 13 = 20	13 + 7 = 20	20 – 7 = 13	20 – 13 = 7
8 + 12 = 20	12 + 8 = 20	20 - 8 = 12	20 – 12 = 8
9 + 11 = 20	11 + 9 = 20	20 – 9 = 11	20 – 12 = 9
10 + 10 = 20		20 - 10 = 10	

Key Vocabulary

What do I add to 5 to make 20?

What is 20 take away 6?

What is 3 less than 20?

How many more than 16 is 20?

They should be able to answer these questions in any order, including missing number questions e.g. 19 + ____ = 20 or 20 - ____ = 8.



Year 2 – Autumn 2

I know the multiplication and division facts for the 2 times table

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

2 x 1 = 2	2 ÷ 2 = 1
2 x 2 = 4	4 ÷ 2 = 2
2 x 3 = 6	6 ÷ 2 = 3
2 x 4 = 8	8 ÷ 2 = 4
2 x 5 = 10	10 ÷ 2 = 5
2 x 6 = 12	12 ÷ 2 = 6
2 x 7 = 14	14 ÷ 2 = 7
2 x 8 = 16	16 ÷ 2 = 8
2 x 9 = 18	18 ÷ 2 = 9
2 x 10 = 20	20 ÷ 2 = 10
2 x 11 = 22	22 ÷ 2 = 11
2 x 12 = 24	24 ÷ 2 = 12

<u>Key Vocabulary</u>

What is 2 **multiplied by** 7?

What is 2 **times** 9?

What is 12 divided by 2?

They should be able to answer these questions in any order, including missing number questions e.g. $2 \times 2 = 8$ or 2 = 6



Key Instant Recall Facts Year 2 – Spring 1

I know doubles and halves of numbers to 20.

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

0 + 0 = 0	½ of 0 = 0	11 + 11 = 22
1 + 1 = 2	½ of 2 = 1	12 + 12 = 24
2 + 2 = 4	½ of 4 = 2	13 + 13 = 26
3 + 3 = 6	½ of 6 = 3	14 + 14 = 28
4 + 4 = 8	½ of 8 = 4	15 + 15 = 30
5 + 5 = 10	½ of 10 = 5	16 + 16 = 32
6 + 6 = 12	½ of 12 = 6	17 + 17 = 34
7 + 7 = 14	½ of 14 = 7	18 + 18 = 36
8 + 8 = 16	½ of 16 = 8	19 + 19 = 38
9 + 9 = 18	½ of 18 = 9	20 + 20 = 40
10 + 10 = 20	½ of 20 = 10	

Key Vocabulary

What is **double** 9?

What is half of 14?



I know the multiplication and division facts for the 10 times table

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

10 x 1 = 10	10 ÷ 10 = 1
10 x 2 = 20	20 ÷ 10 = 2
10 x 3 = 30	30 ÷ 10 = 3
10 x 4 = 40	40 ÷ 10 = 4
10 x 5 = 50	50 ÷ 10 = 5
10 x 6 = 60	60 ÷ 10 = 6
10 x 7 = 70	70 ÷ 10 = 7
10 x 8 = 80	80 ÷ 10 = 8
10 x 9 = 90	90 ÷ 10 = 9
10 x 10 =100	100 ÷ 10 = 10
10 x 11 = 110	110 ÷ 10 = 11
10 x 12 = 120	120 ÷ 10 = 12

Key Vocabulary What is 10 **multiplied by** 3? What is 10 **times** 9? What is 70 **divided by** 10?

They should be able to answer these questions in any order, including missing number questions e.g. $10 \times 200 \times 10^{-10} \times 10^{-10}$



Key Instant Recall Facts Year 2 – Summer 1

I know addition and subtraction facts for multiples of 10 and 100.

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

Some examples;

- 30 + 20 = 50
- 20 + 30 = 50
- 50 30 = 20
- 50 20 = 30
- 60 + 40 = 100
- 40 + 60 = 100
- 100 40 = 60
- 100 60 = 40

Key Vocabulary

What do I add to 60 to make 100?

What is 100 take away 60?

What is 20 less than 50?

How many more than 60 is 100?

What is the **difference** between 50 and 30?



Year 2 – Summer 2

I know the multiplication and division facts for the 5 times table

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

5 x 1 = 5	5 ÷ 5 = 1
5 x 2 = 10	10 ÷ 5 = 2
5 x 3 = 15	15 ÷ 5 = 3
5 x 4 = 20	20 ÷ 5 = 4
5 x 5 = 25	25 ÷ 5 = 5
5 x 6 = 30	30 ÷ 5 = 6
5 x 7 = 35	35 ÷ 5 = 7
5 x 8 = 40	40 ÷ 5 = 8
5 x 9 = 45	45 ÷ 5 = 9
5 x 10 = 50	50 ÷ 5 = 10
5 x 11 = 55	55 ÷ 5 = 11
5 x 12 = 60	60 ÷ 5 = 12

Key Vocabulary

What is 5 multiplied by 7?

What is 5 **times** 9?

What is 60 divided by 5?

They should be able to answer these questions in any order, including missing number questions e.g. $5 \times 2 = 40$ or $2 \div 5 = 9$



Year 3 – Autumn 1

I know number bonds for all numbers to 20.

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

2 + 9 = 11	5 + 9 = 14	Example of a fact family
3 + 8 = 11	6 + 8 = 14	6 + 9 = 15
4 + 7 = 11	7 + 7 = 17	9 + 6 = 15
5 + 6 = 11	6 + 9 = 15	15 – 9 = 6
3 + 9 = 12	7 + 8 = 15	15 – 6 = 9
4 + 8 = 12	7 + 9 = 15	Example of other facts
5 + 7 = 12	8 + 8 = 16	4 + 5 = 9
6 + 6 = 12	8 + 9 = 17	13 + 5 = 18
4 + 9 = 13	9 + 9 = 18	19 – 7 = 12
5 + 8 = 13		10 - 6 = 4
6 + 7 = 13		

Key Vocabulary

What do I add to 5 to make 19?

What is 17 take away 6?

What is 13 less than 15?

How many more than 8 is 11?

What is the **difference** between 9 and 13?

This list includes the most challenging facts but children will need to learn **all** number bonds for each number to 20 (e.g. 15 + 2 = 17).



Year 3 – Autumn 2

I know the multiplication and division facts for the 3 times table

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

1 x 3 = 3	3 ÷ 3 = 1	3 ÷ 1 = 3
2 x 3 = 6	6 ÷ 3 = 2	6 ÷ 2 = 3
3 x 3 = 9	9 ÷ 3 = 3	9 ÷ 3 = 3
4 x 3 = 12	12 ÷ 3 = 4	12 ÷ 4 = 3
5 x 3 = 15	15 ÷ 3 = 5	15 ÷ 5 = 3
6 x 3 = 18	18 ÷ 3 = 6	18 ÷ 6 = 3
7 x 3 = 21	21 ÷ 3 = 7	21 ÷ 7 = 3
8 x 3 = 24	24 ÷ 3 = 8	24 ÷ 8 = 3
9 x 3 = 27	27 ÷ 3 = 9	27 ÷ 9 = 3
10 x 3 = 30	30 ÷ 3 = 10	30 ÷ 10 = 3
11 x 3 = 33	33 ÷ 3 = 11	33 ÷ 11 = 3
12 x 3 = 36	36 ÷ 3 = 12	36 ÷ 12 = 3
	$2 \times 3 = 6$ $3 \times 3 = 9$ $4 \times 3 = 12$ $5 \times 3 = 15$ $6 \times 3 = 18$ $7 \times 3 = 21$ $8 \times 3 = 24$ $9 \times 3 = 27$ $10 \times 3 = 30$ $11 \times 3 = 33$	$2 \times 3 = 6$ $6 \div 3 = 2$ $3 \times 3 = 9$ $9 \div 3 = 3$ $4 \times 3 = 12$ $12 \div 3 = 4$ $5 \times 3 = 15$ $15 \div 3 = 5$ $6 \times 3 = 18$ $18 \div 3 = 6$ $7 \times 3 = 21$ $21 \div 3 = 7$ $8 \times 3 = 24$ $24 \div 3 = 8$ $9 \times 3 = 27$ $27 \div 3 = 9$ $10 \times 3 = 30$ $30 \div 3 = 10$ $11 \times 3 = 33$ $33 \div 3 = 11$

Key Vocabulary

What is 3 multiplied by 8?

What is 8 times 3?

What is 24 **divided by** 3?

They should be able to answer these questions in any order, including missing number questions e.g. $3 \times 1 = 18$ or $2 \div 3 = 11$.



Year 3 – Spring 1

I can recall facts about duration of time.

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

There are 60 seconds in a minute.	Number of days in each month.			
There are 60 minutes in an hour.	January	31	July	31
There are 24 hours in a day.	February	28/29	August	31
There are 7 days in a week.	March	31	September	30
There are 12 months in a year.	April	30	October	31
There are 365 days in a year.	May	31	November	30
There are 366 days in a leap year.	June	30	December	31

Children also need to know the order of the months in a year. They should be able to apply these facts to answer questions, such as:

- What day comes after 30th April?
- What day comes before 1st February?



Year 3 – Spring 2

I know the multiplication and division facts for the 4 times table

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

4 x 1 = 4	1 x 4 = 4	4 ÷ 4 = 1	4 ÷ 1 = 4
4 x 2 = 8	2 x 4 = 8	8 ÷ 4 = 2	8 ÷ 2 = 4
4 x 3 = 12	3 x 4 = 12	12 ÷ 4 = 3	12 ÷ 3 = 4
4 x 4 = 16	4 x 4 = 16	16 ÷ 4 = 4	16 ÷ 4 = 4
4 x 5 = 20	5 x 4 = 20	20 ÷ 4 = 5	20 ÷ 5 = 4
4 x 6 = 24	6 x 4 = 24	24 ÷ 4 = 6	24 ÷ 6 = 4
4 x 7 = 28	7 x 4 = 28	28 ÷ 4 = 7	28 ÷ 7 = 4
4 x 8 = 32	8 x 4 = 32	32 ÷ 4 = 8	32 ÷ 8 = 4
4 x 9 = 36	9 x 4 = 36	36 ÷ 4 = 9	36 ÷ 9 = 4
4 x 10 = 40	10 x 4 = 40	40 ÷ 4 = 10	40 ÷ 10 = 4
4 x 11 = 44	11 x 4 = 44	44 ÷ 4 = 11	44 ÷ 11 = 4
4 x 12 = 48	12 x 4 = 48	48 ÷ 4 = 12	48 ÷ 12 = 4

Key Vocabulary

What is 4 multiplied by 6?

What is 8 times 4?

What is 24 **divided by** 4?

They should be able to answer these questions in any order, including missing number questions e.g. 4×16 or $2 \times 4 = 7$.



Year 3 – Summer 1

I can count in 50s.

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

Children need to be able to count in 50s.

0 = 1	1 x 50 = 50 50 ÷ 50 = 1	
50 = 2 <u>K</u>	$2 \times 50 = 100$ $100 \div 50 = 2$	Key Vocabulary
50 = 3 How many 5	3 x 50 = 150 150 ÷ 50 = 3	How many 50s make 300?
50 = 4 Multiply 50	$4 \times 50 = 200$ $200 \div 50 = 4$	Multiply 50 by 6?
50 = 5 What are 4 l	$5 \times 50 = 250$ $250 \div 50 = 5$	What are 4 lots of 50?
50 = 6	$6 \times 50 = 300$ $300 \div 50 = 6$	
50 = 7	7 x 50 = 350 350 ÷ 50 = 7	
50 = 8	8 x 50 = 400 400 ÷ 50 = 8	
50 = 9	$9 \times 50 = 450$ $450 \div 50 = 9$	
0 = 10	0 x 50 = 500 500 ÷ 50 = 10	

They should be able to answer these questions in any order, including missing number questions e.g. $50 \times 150 = 150$ or $2 \div 50 = 7$.



Year 3 – Summer 2

I know the multiplication and division facts for the 8 times table

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

8 x 1 = 8	1 x 8 = 8	8 ÷ 8 = 1	8 ÷ 1 = 8
8 x 2 = 16	2 x 8 = 16	16 ÷ 8 = 2	16 ÷ 2 = 8
8 x 3 = 24	3 x 8 = 24	24 ÷ 8 = 3	24 ÷ 3 = 8
8 x 4 = 32	4 x 8 = 32	32 ÷ 8 = 4	32 ÷ 4 = 8
8 x 5 = 40	5 x 8 = 40	40 ÷ 8 = 5	40 ÷ 5 = 8
8 x 6 = 48	6 x 8 = 48	48 ÷ 8 = 6	48 ÷ 6 = 8
8 x 7 = 56	7 x 8 = 56	56 ÷ 8 = 7	56 ÷ 7 = 8
8 x 8 = 64	8 x 8 = 64	64 ÷ 8 = 8	64 ÷ 8 = 8
8 x 9 = 72	9 x 8 = 72	72 ÷ 8 = 9	72 ÷ 9 = 8
8 x 10 = 80	10 x 8 = 80	80 ÷ 8 = 10	80 ÷ 10 = 8
8 x 11 = 88	11 x 8 = 88	88 ÷ 8 = 11	88 ÷ 11 = 8
8 x 12 = 96	12 x 8 = 96	96 ÷ 8 = 12	96 ÷ 12 = 8

Key Vocabulary

What is 8 multiplied by 6?

What is 8 times 8?

What is 24 divided by 8?

They should be able to answer these questions in any order, including missing number questions e.g. 8×16 or $2 \times 8 = 7$.



Year 4 – Autumn 1

I know number bonds to 100.

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

Some examples:

60 + 40 = 100	37 + 63 = 100
40 + 60 = 100	63 + 37 = 100
100 - 40 = 60	100 - 63 = 37
100 - 60 = 40	100 – 37 = 63
75 + 25 = 100	48 + 52 = 100
25 + 75 = 100	52 + 48 = 100
100 – 25 = 75	100 - 52 = 48
100 – 75 = 25	100 - 48 = 52

Key Vocabulary

What do I add to 65 to make 100?
What is 100 take away 6?
What is 13 less than 100?
How many more than 98 is 100?
What is the difference between 89 and 100?

They should be able to answer these questions in any order, including missing number questions e.g. 49 + ____ = 100 or 100 - ____ = 72.



Year 4 – Autumn 2

I can multiply and divide single-digit numbers by 10 and 100.

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

7 x 10 = 70	30 x 10 = 300	0.8 x 10 = 8
10 x 7 = 70	10 x 30 = 300	10 x 0.8 = 8
70 ÷ 10 = 7	300 ÷ 10 = 30	8 ÷ 10 = 0.8
70 ÷ 7 = 10	300 ÷ 30 = 10	8 ÷ 0.8 = 10
6 x 100 = 600	40 x 100 = 4000	0.2 x 10 = 2
100 x 6 = 600	100 x 40 = 4000	10 x 0.2 = 2
600 ÷ 100 = 6	4000 ÷ 100 = 40	2 ÷ 10 = 0.2
600 ÷ 6 = 100	4000 ÷ 40 = 100	2 ÷ 0.2 = 10

Key Vocabulary

What is 5 **multiplied by** 10? What is 10 **times** 0.9? What is 700 **divided by** 70? hundreds, tens, ones, tenths, hundredths

They should be able to answer these questions in any order, including missing number questions e.g. $10 \times 10 = 5 \text{ or } 10 = 60$.



Year 4 – Spring 1

I know the multiplication and division facts for the 6 times table.

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

6 x 1 = 6	1 x 6 = 6	6 ÷ 6 = 1	6÷1=6
6 x 2 = 12	2 x 6 = 12	12 ÷ 6 = 2	12 ÷ 2 = 6
6 x 3 = 18	3 x 6 = 18	18 ÷ 6 = 3	18 ÷ 3 = 6
6 x 4 = 24	4 x 6 = 24	24 ÷ 6 = 4	24 ÷ 4 = 6
6 x 5 = 30	5 x 6 = 30	30 ÷ 6 = 5	30 ÷ 5 = 6
6 x 6 = 36	6 x 6 = 36	36 ÷ 6 = 6	36 ÷ 6 = 6
6 x 7 = 42	7 x 6 = 42	42 ÷ 6 = 7	42 ÷ 7 = 6
6 x 8 = 48	8 x 6 = 48	48 ÷ 6 = 8	48 ÷ 8 = 6
6 x 9 = 54	9 x 6 = 54	54 ÷ 6 = 9	54 ÷ 9 = 6
6 x 10 = 60	10 x 6 = 60	60 ÷ 6 = 10	60 ÷ 10 = 6
6 x 11 = 66	11 x 6 = 66	66 ÷ 6 = 11	66 ÷ 11 = 6
6 x 12 = 72	12 x 6 = 72	72 ÷ 6 = 12	72 ÷ 12 = 6
	<u>Key Vo</u>	cabulary	
What is 8 multi	plied by 6?		
What is 6 times	8?		

What is 24 **divided by** 6?

They should be able to answer these questions in any order, including missing number questions e.g. $6 \times 2 = 72$ or $2 \div 6 = 7$.



Year 4 – Spring 2

I know the multiplication and division facts for the 9 and 11 times tables.

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

What is 8 multi	plied by 9?		
	Key Vo	<u>cabulary</u>	
9 x 12 = 108	108 ÷ 9 = 12	11 x 12 = 132	132 ÷ 11 = 12
9 x 11 = 99	99 ÷ 9 = 11	11 x 11 = 121	121 ÷ 11 = 11
9 x 10 = 90	90 ÷ 9 = 10	11 x 10 = 110	110 ÷ 11 = 10
9 x 9 = 81	81 ÷ 9 = 9	11 x 9 = 99	99 ÷ 11 = 9
9 x 8 = 72	72 ÷ 9 = 8	11 x 8 = 88	88 ÷ 11 = 8
9 x 7 = 63	63 ÷ 9 = 7	11 x 7 = 77	77 ÷ 11 = 7
9 x 6 = 54	54 ÷ 9 = 6	11 x 6 = 66	66 ÷ 11 = 6
9 x 5 = 45	45 ÷ 9 = 5	11 x 5 = 55	55 ÷ 11 = 5
9 x 4 = 36	36 ÷ 9 = 4	11 x 4 = 44	44 ÷ 11 = 4
9 x 3 = 27	27 ÷ 9 = 3	11 x 3 = 33	33 ÷ 11 = 3
9 x 2 = 18	18 ÷ 9 = 2	11 x 2 = 22	22 ÷ 11 = 2
9 x 1 = 9	9÷9=1	11 x 1 = 11	11 ÷ 11 = 1

What is 11 **times** 8?

What is 81 divided by 9?

They should be able to answer these questions in any order, including missing number questions e.g. $9 \times 2 = 54$ or $2 \div 9 = 11$.



Year 4 – Summer 1

I can recognise decimal equivalents of fractions.

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

7 x 1 = 7	1 x 7 = 7	7 ÷ 7 = 1	7 ÷ 1 = 7
7 x 2 = 14	2 x 7 = 14	14 ÷ 7 = 2	14 ÷ 2 = 7
7 x 3 = 21	3 x 7 = 21	21 ÷ 7 = 3	21 ÷ 3 = 7
7 x 4 = 28	4 x 7 = 28	28 ÷ 7 = 4	28 ÷ 4 = 7
7 x 5 = 35	5 x 7 = 35	35 ÷ 7 = 5	35 ÷ 5 = 7
7 x 6 = 42	6 x 7 = 42	42 ÷ 7 = 6	42 ÷ 6 = 7
7 x 7 = 49	7 x 7 = 49	49 ÷ 7 = 7	49 ÷ 7 = 7
7 x 8 = 56	8 x 7 = 56	56 ÷ 7 = 8	56 ÷ 8 = 7
7 x 9 = 63	9 x 7 = 63	63 ÷ 7 = 9	63 ÷ 9 = 7
7 x 10 = 70	10 x 7 = 70	70 ÷ 7 = 10	70 ÷ 10 = 7
7 x 11 = 71	11 x 7 = 77	77 ÷ 7 = 11	77 ÷ 11 = 7
7 x 12 = 84	12 x 7 = 84	84 ÷ 7 = 12	84 ÷ 12 = 7
	<u>Key Vo</u>	<u>cabulary</u>	

What is 7 **multiplied by** 6? What is 7 **times** 8?

What is 84 divided by 7?

They should be able to answer these questions in any order, including missing number questions e.g. $7 \times 28 \text{ or} = 28 \text{ or} = 7.$



Year 4 – Summer 2

I can recognise decimal equivalents of fractions.

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

$\frac{1}{2} = 0.5$	$\frac{1}{10} = 0.1$	$\frac{1}{100} = 0.01$
$\frac{1}{4} = 0.25$	$\frac{2}{10} = 0.2$	$\frac{7}{100} = 0.07$
$\frac{3}{4} = 0.75$	$\frac{5}{10} = 0.5$	$\frac{21}{100} = 0.21$
	$\frac{6}{10} = 0.6$	$\frac{75}{100} = 0.75$
	$\frac{9}{10} = 0.9$	$\frac{99}{100} = 0.99$
	Key Vocabulary	
How many tenths is	s 0.8?	
How many hundredths is 0.12?		
Write 0.75 as a fraction .		
Write ¼ as a decima	al.	

Children should be able to convert between decimals and fractions for ½, ¼, ¾ and any number of tenths and hundredths.



Year 5 – Autumn 1

I know decimal number bonds to 1 and 10.

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

Some examples:

0.6 + 0.4 = 1	3.7 + 6.3 = 10	
0.4 + 0.6 = 1	6.3 + 3.7 = 10	Key Vocabulary
1-0.4=0.6	10 - 6.3 = 3.7	What do I add to 0.8 to make 1?
1-0.6=0.4	10 - 3.7 = 6.3	What is 1 take away 0.06?
		What is 1.3 less than 10?
0.75 + 0.25 = 1	4.8 + 5.2 = 10	How many more than 9.8 is 10?
0.25 + 0.75 = 1	5.2 + 4.8 = 10	What is the difference between 0.92
1-0.25 = 0.75	10 - 5.2 = 4.8	and 10?
1-0.75=0.25	10 - 4.8 = 5.2	

This list includes some examples of facts that children should know. They should be able to answer questions including missing number questions e.g. $0.49 + __ = 10$ or $7.2 + __ = 10$.



Year 5 – Autumn 2

I know the multiplication and division facts for all times tables up to 12 x 12.

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

Children should now know all multiplication and division facts up to 12 x 12.

Key Vocabulary

What is 12 multiplied by 6?

What is 7 times 8?

What is 84 **divided by** 7?

They should be able to answer these questions in any order, including missing number questions e.g. $7 \times 28 \text{ or} = 28 \text{ or} = 7.$



Year 5 – Spring 1

I can recall metric conversions.

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

1 kilogram = 100 grams

- 1 kilometre = 1000 metres
- 1 metre = 100 centimetres
- 1 metre = 1000 millimetres
- 1 centimetre = 10 millimetres

1 litre = 1000 mililetres

They should also be able to apply these facts to answer questions. e.g. How many metres in $1 \frac{1}{2}$ km?



Year 5 – Spring 2

I can identify prime numbers up to 20.

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

A prime number is a number with no factors other than itself and one.

The following numbers are prime numbers:

2, 3, 5, 7, 11, 13, 17, 19

A composite number is divisible by a number other than 1 or itself.

The following numbers are composite numbers:

4, 6, 8, 10, 12, 14, 15, 16, 18, 20

Key Vocabulary
Prime number
Composite number
Factor
Mulitple

Children should be able to explain how they know that a number is composite.

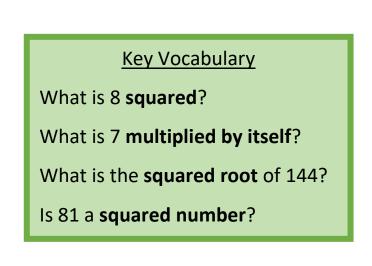
e.g. 15 is composite because it is a multiple of 3 and 5.



Year 5 – Summer 1

I can recall square numbers up to 12² and their square roots.

$1^2 = 1 \times 1 = 1$	√ 1 = 1
$2^2 = 2 \times 2 = 4$	v4 = 2
$3^2 = 3 \times 3 = 9$	√ 9 = 3
$4^2 = 4 \times 4 = 16$	√ 16 = 4
5 ² = 5 x 5 = 25	√25 = 5
$6^2 = 6 \times 6 = 36$	√36 = 6
$7^2 = 7 \times 7 = 49$	√ 49 = 7
$8^2 = 8 \times 8 = 64$	√64 = 8
$9^2 = 9 \times 9 = 81$	√81 = 9
$10^2 = 10 \times 10 = 100$	√100 = 10
11 ² = 11 x 11 = 121	√ 121 = 11
12 ² = 12 x 12 = 144	√ 144 = 12



Children should also be able to recognise whether a number below 150 is a squared number or not.



Year 5 – Summer 2

I can find factor pairs of a number.

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

Children should now know all multiplication and division facts up to 12 x 12. When given a number in one of these times tables, they should be able to state a factor pair which multiply to make this number. Below are some examples:

24 = 4 x 6	42 = 6 x 7
24 = 8 x 3	25 = 5 x 5
56 = 7 x 8	84 = 7 x 12
54 = 9 x 6	15 = 5 x 3

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.



Year 6 – Autumn 1

I can use x tables facts to multiply and divide decimals.

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

This is a chance for Year 6 children to consolidate their knowledge of multiplication and division facts, increase their speed of recall and apply skills to decimal calculations.

Key Vocabulary

What is 1.2 multiplied by 6?

What is 7 times 0.8?

What is 8.4 divided by 7?

They should be able to answer these questions in order, including missing number questions e.g. 7 x ____ = 28 or ____ \div 6 = 7.

Children should apply this knowledge to answer questions including decimals e.g. 0.7 x ___ = 4.2 or ___ \div 60 = 0.7



Year 6 – Autumn 2

I can identify common factors of a pair of numbers.

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

The factors of a number are all numbers which divide it with no remainders.

- e.g. the factors of 24 are 1, 2, 3, 4, 6, 8, 12 and 24. The factors of 56 are 1, 2, 4, 7, 8, 14, 28 and 56.
- The common factors of two numbers are the factors they share.
- e.g. the common factors of 24 and 56 are 1, 2, 4 and 8. The greatest common factor of 24 and 56 is 8.

Key Vocabulary
Factor
Common factor
Multiple
Greatest common factor

Children should be able to explain how they know that a number is a common factor.

e.g. 8 is a common factor of 24 and 56 because $24 = 8 \times 3$ and $56 = 8 \times 7$.



Year 6 – Spring 1

I can convert between decimals, fractions and percentages.

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

$\frac{1}{2} = 0.5$	$\frac{1}{100} = 0.01$
$\frac{1}{4} = 0.25$	$\frac{7}{100} = 0.07$
$\frac{3}{4} = 0.75$	$\frac{21}{100} = 0.21$
$\frac{1}{10} = 0.1$	$\frac{75}{100} = 0.75$
$\frac{1}{5} = 0.2$	$\frac{99}{100} = 0.99$
$\frac{3}{5} = 0.6$	
$\frac{9}{10} = 0.9$	

Key Vocabulary

How many tenths is 0.8?

How many hundredths is 0.12?

Write 0.75 as a fraction?

Write ¼ as a decimal?



Year 6 – Spring 2

I can identify prime numbers up to 50.

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

A prime number is a number with no factors other than itself and one. The following numbers are prime numbers:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

A composite number is divisible by a number other than 1 or itself. The following numbers are composite numbers:

4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 22, 24, 25, 26, 27, 28, 30, 32, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50

	<u>Key Vocabulary</u>
Prime number	
Composite number	
Factor	
Multiple	

Children should be able to explain how they know that a number is composite.

E.g. 39 is composite because it is a multiple of 3 and 13.