<u>Times tables Policy 2023 onwards- Number Sense Maths</u>

The full set of multiplication calculations that pupils need to be able to solve by automatic recall are shown in the table below. Pupils must also have automatic recall of the corresponding division facts. There are 36 essential facts!



1 × 1	1 × 2	1 × 3	1 × 4	1 × 5	1 × 6	1 × 7	1 × 8	1 × 9	1 × 10	1 × 11	1 × 12
2 × 1	2 × 2	2 × 3	2 × 4	2 × 5	2 × 6	2 × 7	2 × 8	2 × 9	2 × 10	2 × 11	2 × 12
3 × 1	3 × 2	3 × 3	3 × 4	3 × 5	3 × 6	3 × 7	3 × 8	3 × 9	3 × 10	3 × 11	3 × 12
4 × 1	4 × 2	4 × 3	4 × 4	4 × 5	4 × 6	4 × 7	4 × 8	4 × 9	4 × 10	4 × 11	4 × 12
5 × 1	5 × 2	5 × 3	5 × 4	5 × 5	5 × 6	5 × 7	5 × 8	5 × 9	5 × 10	5 × 11	5 × 12
6 × 1	6 × 2	6 × 3	6 × 4	6 × 5	6 × 6	6 × 7	6 × 8	6 × 9	6 × 10	6 × 11	6 × 12
7 × 1	7 × 2	7 × 3	7 × 4	7 × 5	7 × 6	7 × 7	7 × 8	7 × 9	7 × 10	7 × 11	7 × 12
8 × 1	8 × 2	8 × 3	8 × 4	8 × 5	8 × 6	8 × 7	8 × 8	8 × 9	8 × 10	8 × 11	8 × 12
9 × 1	9 × 2	9 × 3	9 × 4	9 × 5	9×6	9 × 7	9×8	9×9	9 × 10	9 × 11	9 × 12
10 × 1	10 × 2	10 × 3	10 × 4	10 × 5	10 × 6	10 × 7	10 × 8	10 × 9	10 × 10	10 × 11	10 × 12
11 × 1	11 × 2	11 × 3	11 × 4	11 × 5	11 × 6	11 × 7	11 × 8	11 × 9	11 × 10	11 × 11	11 × 12
12 × 1	12 × 2	12 × 3	12 × 4	12 × 5	12 × 6	12 × 7	12 × 8	12 × 9	12 × 10	12 × 11	12 × 12

When are these facts learnt in our academy?

Year 3	Year 3	Year 3	Year 4	Year 4	Year 4	Year 4	Year 4						
2 ††	5tt	3tt	4††	6tt	7tt	8tt	9††						
2 x 2													
3 x 2	3 x 5	3 x 3											
4 x 2	4 x 5	4 x 3	4 x 4										
5 x 2	5 x 5												
6 x 2	6 x 5	6 x 3	6 x 4	6 x 6									
7 x 2	7 x 5	7 x 3	7 x 4	7 x 6	7 x 7								
8 x 2	8 x 5	8 x 3	8 x 4	8 x 6	8 x 7	8 x 8							
9 x 2	9 x 5	9 x 3	9 x 4	9 x 6	7 x 7 8 x 7 9 x 7 3 facts	9 x 8	9 x 9						
8 facts	7 facts	6 facts	5 facts	4 facts	3 facts	2 facts	1 fact						
By end of Y3: 21 facts learnt			By end of	By end of Y4 15 facts learnt to complete building blocks									
			15 facts le										
15 facts sti	ill to learn		21 more fo	ıcts for times t	able check (se	ee below)							

Year 4: 21 more facts

11 x 2	11 x 3	11 x 4	11 x 5	<u>11 x 6</u>	<u>11 x 7</u>	11 x 8	<u>11 x 9</u>	11 x 10	<u>11 x 11</u>	
<u>12 x 2</u>	12 x 3	<u>12 x 4</u>	<u>12 x 5</u>	<u>12 x 6</u>	<u>12 x 7</u>	12 x 8	<u>12 x 9</u>	<u>12 x 10</u>	<u>12 x 11</u>	<u>12 x 12</u>

Overviews.

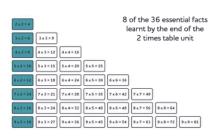
		Autumn			S	Spring				Summer						
Year 3				Dout	oles	2 Times	s Table	Sq		e Times ble	5 Times Tal	ole	Consolidation			
3					ks	5 we (8 fa			ueeks u facts)	5 weeks (6 new facts	:)	3-5 weeks 21 out of 36 facts learnt by end of Year 3				
Year	Recap	3 Times Table	4 Times Table	6 Times Table	7 Times Table	8 TT	9 TT		0&11 TT	12 Times Table	MTC Prep	мтс	Consolidation			
4	3 weeks	5 weeks (5 new facts)	5 weeks (4 new facts) 30 out of 36 facts learnt by end of Autumn Term	3 weeks (3 new facts)	3 weeks (2 new facts)	All 36 f	2 weeks (0 new facts) acts learnt d Spring 2	1 wk 1 (Rema		4 weeks I facts needed for I	3 weeks MTC learnt)	1 wk	3-5 weeks			
Year 5		Daily consolida	tion	l	Weekly cor	nsolidation	n (weekly	y fluenc	cy se	ssion and we	ekly concept	ual an	imation)			
Year 6					Weekly	y consolid	ation									

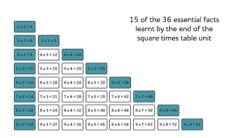


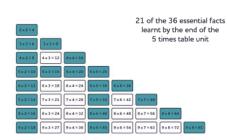
© Number Sense Maths 2023

Year 3 overview

Autumn		Spring		Summer					
	Stage 1 Unit 1 Doubles	Stage 2 Unit 1 2 Times Table	Squai	2 Unit 2 re Times able	Stage 2 Unit 3 5 Times Table	Stage 2 Unit 4 Consolidation			
	5 weeks	5 weeks (8 facts)		veeks w facts)	5 weeks (6 new facts) lea	3-5 weeks 21 out of 36 facts rnt by end of Year 3			



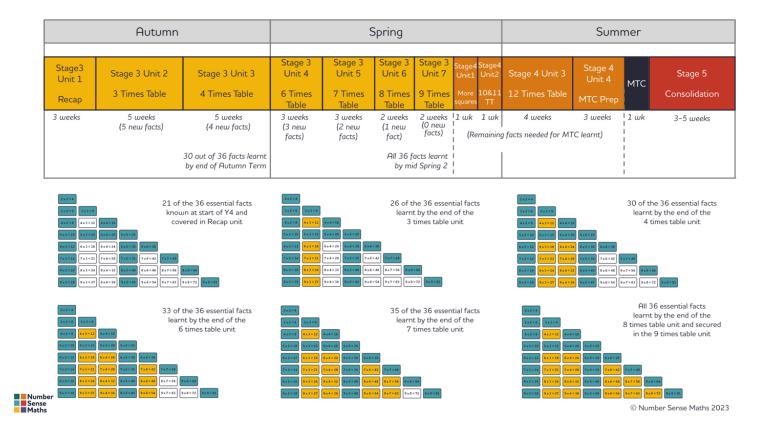






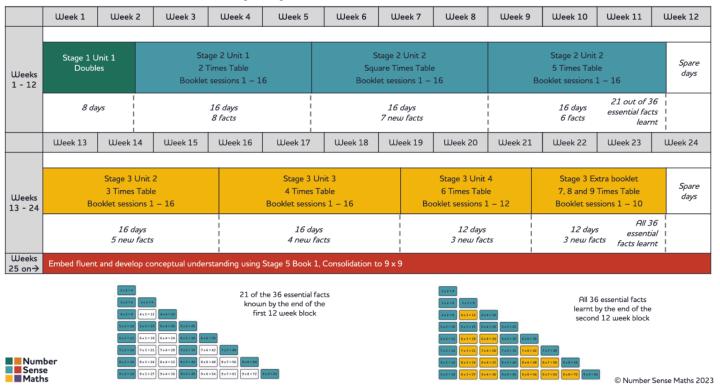
© Number Sense Maths 2023

Year 4 overview



'Getting going plan' for Year 5 and Year 6 in 2023

Getting Going Plan - The 36 Essential Facts in 24 weeks



How are times tables taught at our academy? Principles and teaching approach.

All teaching units in our Times Tables Fluency Programme follow the same 5 step teaching approach:

Display

Display

Daily fluency sessions

Start of unit conceptual lesson

Targeted support

Daily fluency sessions

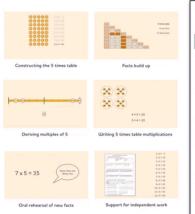
End of unit conceptual activities

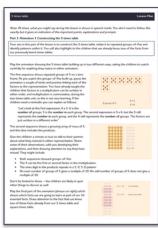
1.A consistent classroom display through the programme helps children see where they are on the journey to fluency, and provides them with a place to find facts that they do not yet

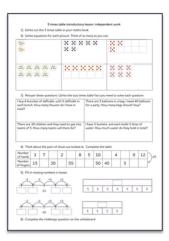
know.



2. Children need to be <u>taught</u> to build an understanding of multiplicative structures and relationships as well as learning times tables facts. The Times Tables Fluency programme teaches this conceptual understanding through both the start of unit conceptual lessons, where children look at patterns and structures within multiples of that number, and through the end of unit conceptual activities (see Step 5). <u>This teaching is done through the use of counting sticks, chanting and animations.</u>







Lesson animations

Lesson plan

Independent work

3. The 10 minute daily fluency session is at the heart of the teaching approach. It's where the repeated retrieval and rehearsal of the facts, which leads to fluency in recall, takes place. There is specific pedagogy to each of the four parts of that daily session. See Appendix 'Structure of a fluency session.'

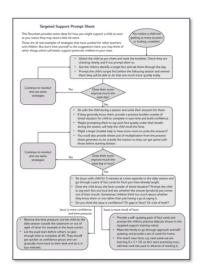


The key points here are that we teach our times tables as a memorised phrase by repeating sound patterns out loud. We don't try to derive. If children don't know them they copy them down then learn later. We teach each fact one way round only, then get confident at switching factors. We don't think! (This is about the only time in maths when thinking is unhelpful!) When trying to recall a fact, we teach children to say the WHOLE number sentence out loud and see if the answer trips off their tongue. We also teach one new fact at a time and we don't teach the whole times table at once. Children's daily fluency session scores are recorded using the given format. This will also help the teacher identify who needs targeted support. (Step 4 below)

	_				~																	
	Fi	rst ha	lf of 5	tt	Sec	Second half of 5 tt			All 5 tt facts				All facts learnt so far									
Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
i										 												

4. Targeted approach.

The highly structured nature of our programme means the vast majority of children keep pace with peers. Where targeted support is needed it happens within the main programme, rather than as a separate intervention. Our guidance for this step shows how to bring your knowledge of, and relationships with, the children to the fore, to support all children to become fluent.



5. The end of unit conceptual activities teach children to apply the times tables facts they are fluent in to multiplicative structures and properties.

