

## Teaching Number Facts at Nansledan

*How do we teach maths?*

Independent Morning Maths (Spiral Review)	Daily Maths lessons using our Nansledan Bingo	Maths Application through STEAM
Daily Number Fact Sessions (15 minutes)	Targeted and Post-Teach Interventions	Outdoor maths

*How and when do we teach number facts?*

<i>Class Names</i>	<i>Session Timings</i>	<i>Resource</i>
Shackleton and Jemison YR	11.30am	Number Blocks, Number Sense
Fleming and Newton Y1	11.30am	Number Sense
Curie and Anning Y2	11.45am	Number Sense
Berners-Lee and Marconi Y3	10.45am	Number Sense, NCETM RTP materials, times tables focus
Trevithick Y4	11.45am	Number Sense, NCETM RTP materials, times tables focus
Bouman Y5	11.45am	NCETM RTP materials, applying number facts
Darwin Y6	11.45am	NCETM RTP materials, applying number facts

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## EYFS Yearly Number Fact Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1				<b>Non-number</b>		<b>Number: Subitising quantities to 3</b>	
				Spatial reasoning <i>Construction and 3D shapes</i>	Spatial reasoning <i>Construction 3D shapes</i>	Book 1: Subitising 1 - 2	Book 2: Subitising 1 - 3
	Continue spatial reasoning for rest of term through provocations in continuous provision						
Autumn 2	<b>Non-number</b>		<b>Number: Subitising quantities to 5</b>				
	Spatial reasoning <i>2D shapes and shape puzzles</i>	Spatial reasoning <i>2D shapes and shape puzzles</i>	Book 3: Subitising 1 - 4	Book 3: Subitising 1 - 4	Book 4: Subitising 1 - 5	Book 4: Subitising 1 - 5 (tens frames)	
	Continue spatial reasoning all term through provocations in continuous provision →						
Spring 1	<b>Non-number</b>		<b>Number: Enumerating between 6 and 10 items</b>				
	Pattern	Pattern	Book 5: Subitising 6 - 10	Book 5: Subitising 6 - 10	Counting out up to 10 items from a collection (not covered by EYNS)		
	Continue pattern all term through provocations in continuous provision →						
Spring 2	<b>Non-number</b>	<b>Partitioning 2, 3, 4, 5 and 10 and 'number bonds' for these number</b>					
	Spatial reasoning <i>Symmetry (incl. shape puzzles &amp; construction)</i>	Books 6 & 7: Partitioning 2 and 3	Book 8: Partitioning 4	Book 9: Partitioning 5	Book 10: Partitioning 10	Book 10: Partitioning 10	
	Continue spatial reasoning all term through provocations in continuous provision →						
Summer 1	<b>Non-number</b>		<b>Composition of 6 - 9, and comparison of numbers to 10</b>				
	Measures	Measures	Book 11: Composition of 6 - 9	Book 11: Composition of 6 - 9	Book 12: Comparing numbers to 10	Book 12: Comparing numbers to 10	
	Continue measures all term through provocations in continuous provision →						
Summer 2	<b>Patterns in numbers to 10</b>			<b>Non-number</b>			
	Book 13: Patterns in odd and even numbers	Book 13: Patterns in doubles	Book 13: Equal distribution	Pattern	Spatial reasoning <i>Maps and plans</i>	Measures	

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### Autumn 1

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>
<u>Y1</u>	Number Sense Stage 1 Book 1	Number Sense Stage 1 Book 2	Number Sense Stage 1 Book 3	Stage 1 Consolidation	Number Sense Stage 2 Book 1	Number Sense Stage 2 Book 2	Number Sense Stage 2 Book 3
<u>Y2</u>	Number Sense Stage 1 <b>REVIEW</b>	Number Sense Stage 3 Books 1-3	Number Sense Stage 3 Books 4-6	Number Sense Stage 3 Books 7 & 8	Number Sense Stage 3 Book 9	Number Sense Stage 4 Book 1	Counting in steps of 2, 5 and 10
<u>Y3</u>	Number Sense <b>REVIEW</b> Stage 5	Number Sense <b>REVIEW</b> Stage 6	Number Sense <b>REVIEW</b> Stage 6	Count in multiples of 10 in order from 0	10 X tables CHANT	10 X tables in any order	Count in multiples of 5 in order from 0
<u>Y4</u>	10 X tables CHANT	10 X tables in any order	5 X tables CHANT	5 X tables in any order	2 X tables CHANT	2 X tables in any order	Consolidate 2, 5 and 10 X tables.
<u>Y5</u>	Count in multiples of 4 from 0	4 X tables CHANT	4 X tables in any order	Count in multiples of 8 from 0	8 X tables CHANT	8 X tables in any order.	Consolidate 4 and 8 X tables
<u>Y6</u>	4 X tables CHANT	4 X tables in any order	8 X tables CHANT	8 X tables in any order.	3 X tables CHANT	3 X tables in any order	Consolidate 3, 4 and 8 X tables.

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### Autumn 2

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<u>Y1</u>	Number Sense Stage 2 Book 4	Number Sense Stage 2 Book 5	Number Sense Stage 2 Book 6	Number Sense Stage 2 Book 7	Stage 2 Consolidation	Numberblocks to review learning.
<u>Y2</u>	Number Sense Stage 5 Book 1	Number Sense Stage 5 Book 1	Number Sense Stage 5 Book 1	Number Sense Stage 5 Book 2	Number Sense Stage 5 Book 2	Number Sense Stage 5 Book 2
<u>Y3</u>	5 X tables CHANT	5 X tables in any order	Count in multiples of 2 from 0	2 X tables CHANT	2 X tables in any order	Consolidate 2 and 5 X tables.
<u>Y4</u>	Count in multiples of 4 in order from 0	4 X tables CHANT	4 X tables in any order	Count in multiples of 8 in order from 0	8 X tables CHANT	8 X tables in any order
<u>Y5</u>	3 X tables	3 X tables in any order	6 X tables	6 X tables in any order	9 X tables	9 X tables in any order.
<u>Y6</u>	6 X tables	6 X tables in any order	9 X tables	9 X tables in order.	7 X tables	7 X tables in any order

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## Spring 1

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<u>Y1</u>	Number Sense Stage 3 Book 1	Number Sense Stage 3 Book 1	Number Sense Stage 3 Book 2	Number Sense Stage 3 Book 2	Number Sense Stage 3 Book 3	Number Sense Stage 3 Book 3
<u>Y2</u>	Number Sense Stage 5 Book 3	Number Sense Stage 5 Book 3	Number Sense Stage 5 Book 3	Number Sense Stage 5 Book 4	Number Sense Stage 5 Book 4	Number Sense Stage 5 Book 4
<u>Y3</u>	2 X tables RECAP	Count in multiples of 4 in order from 0	4 X tables CHANT	4 X tables in any order	Count in multiples of 8 in order from 0	8 X tables CHANT
<u>Y4</u>	3 X tables CHANT	3 X tables in any order	Count in multiples of 6 in order from 0	6 X tables CHANT	6 X tables in any order	Consolidate 2s, 4s and 8s. 3s and 6s
<u>Y5</u>	7 X tables	7 X tables in any order	11 X tables	11 X tables in any order	12 X tables	12 X tables in any order.
<u>Y6</u>	4 X tables 8 X tables	3 X tables 6 X tables	7 X tables 9 X tables	11 X tables 12 X tables	Recall multiples of all times tables up to 12x12 in any order, including missing numbers and related division facts with growing fluency.	

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Spring 2

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<u>Y1</u>	Number Sense Stage 3 Book 4	Number Sense Stage 3 Book 4	Number Sense Stage 3 Book 5	Number Sense Stage 3 Book 6	Number Sense Stage 3 Book 6	Stage 3 Consolidation
<u>Y2</u>	Number Sense Stage 5 Book 5	Number Sense Stage 5 Book 5	Number Sense Stage 5 Book 5	Number Sense Stage 6 Book 1	Number Sense Stage 6 Book 2	Number Sense Stage 6 Book 3
<u>Y3</u>	8 X tables in any order	8 X tables in any order	Recall multiples of 8 up to $12 \times 8$ in any order, including missing numbers and related division facts fluently.		Recap 3 X tables Recall multiples of 3 up to $12 \times 3$ in any order, including missing numbers and related division facts with growing fluency.	
<u>Y4</u>	7 X tables CHANT	7 X tables in any order	9 X tables CHANT	9 X tables in any order	11 X tables	11 X tables in any order
<u>Y5</u>	Recall multiples of all times tables up to $12 \times 12$ in any order, including missing numbers and related division facts with fluency, applying this to problem-solving questions.					
<u>Y6</u>	Recall multiples of all times tables up to $12 \times 12$ in any order, including missing numbers and related division facts with fluency, applying this to arithmetic questions.					

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## Summer 1

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<u>Y1</u>	Number Sense Stage 3 Book 7	Number Sense Stage 3 Book 7	Number Sense Stage 3 Book 8	Number Sense Stage 3 Book 9	Number Sense Stage 3 Book 9	Number Sense Stage 3 Book 9
<u>Y2</u>	Number Sense Stage 6 Book 3	Number Sense Stage 6 Book 3	Count in steps of 2 and 5 from 0 up to 12x fluently.	2 X tables CHANT	Recall multiples of 2 up to 12x2 in any order, including missing numbers and related division facts.	
<u>Y3</u>	Recap 4 X tables Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts with growing fluency.			Recap 2, 5 and 10 X tables Recall multiples of 2, 5 and 10 up to 12x in any order, including missing numbers and related division facts with growing fluency.		
<u>Y4</u>	12 X tables CHANT	12 X tables in any order	Recall multiples of 3, 4 and 8 up to 12x in any order, including missing numbers and related division facts fluently.	Recall multiples of 7 and 9 in any order, including missing numbers and related division facts with growing fluency.		
<u>Y5</u>	Use multiplication facts to secure related facts with multiples of 10 and a single digit number E.g., $40 \times 6 = 240$			Use division facts to secure related facts with multiples of 10 and a single digit number E.g., $240 \div 6 = 40$		
<u>Y6</u>	Use multiplication facts to find related facts for unit and non-unit fractions. E.g., $1/5$ of 40 = 8			Use multiplication and division facts to secure related facts for decimal numbers E.g., $0.4 \times 6 = 2.4$		

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### Summer 2

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>
<u>Y1</u>	Number Sense Stage 4 Book 1	Number Sense Stage 4 Book 1	Number Sense Stage 4 Book 1	Count in multiples of 2, 5 and 10 in order with growing fluency.		
<u>Y2</u>	Count in multiples of 10 in order from 0	10 X tables CHANT	Count in multiples of 5 in order from 0	5 X tables CHANT	Consolidate 2-, 5- and 10-times tables.	
<u>Y3</u>	Recall multiples of 2, 3, 4, 5, 8 and 10 up to $12 \times$ in any order, including missing numbers and related division facts with growing fluency.					
<u>Y4</u>	Recall multiples of all times tables up to $12 \times 12$ in any order, including missing numbers and related division facts with growing fluency.					
<u>Y5</u>	To use multiplication facts to find related facts for unit fractions with a denominator 2, 5, 10 E.g., $1/5$ of 40 = 8		To use multiplication facts to find related facts for unit fractions with a denominator 3, 4, 6, 8 E.g., $1/4$ of 40 = 10		REVIEW multiples of all times tables up to $12 \times 12$ in any order, including missing numbers and related division facts with growing fluency.	
<u>Y6</u>	To use multiplication facts to secure related facts with multiples of 10 E.g., $40 \times 60 = 2400$		To use division facts to secure related facts with multiples of 10 E.g., $2400 \div 60 = 40$		REVIEW multiples of all times tables up to $12 \times 12$ and apply to arithmetic questions.	



## Teaching Number Facts at Nansledan

### Resources:

- MTC booklets,
- Counting sticks
- Hundred squares
- Number lines
- Arrays
- Concrete resources
- Pictorial Representations
- Rolling Numbers [Rocking and Rolling Numbers – Rolling numbers with a rock star twist](#)
- Number Sense
- Counting Songs
- Multiplication Squares