



The next day...





Later that night...















Public Schools NSW

Targeted Early Numeracy

Parent Information

PUBLIC SCHOOLS NSW

WWW.SCHOOLS.NSW.EDU.AU

About the initiative

The Targeted Early Numeracy (TEN) intervention program fulfils a previous Government commitment to provide support for students experiencing substantial difficulty in learning numeracy in the early years.

TEN complements the regular school numeracy programs and the *Kindergarten Best Start Numeracy Assessment*.

Teaching occurs within a normal daily lesson block, without withdrawal or an additional specialist teacher.





To ensure all students are on track with numeracy by the end of Stage 1.





Number Sense

TEN supports the learning of numeral identification, counting forwards and backwards and patterns in number.

Hands-on engaging activities encourage children to explore how numbers work.

Number sense assists children to develop the most efficient strategies in solving addition and subtraction problems.





How would you answer these questions?

39 + 40 = ?

17 + 6 = ?

56 + 35 = ?

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Progression of learning

Counting by ones \rightarrow using number combinations

Not automatic

- Visualisation
- Knowledge of number
- Place value
- The power of dominoes, dice and cards



Using Ten Frames

One of the basic components of numeracy is mental computation

One of the pre-requisites for mental computation facility is instant recall of basic facts

The ten frame is valuable for building visualisation of numbers 1 to 10, and also linking number pairs.



What does TEN look like in the classroom?

- Students working cooperatively in small groups at their own level
- Short, focussed, frequent numeracy sessions
- Explicit and systematic teaching
- Five weekly monitoring of student progress to identify and plan future instruction.
- Hands-on teaching activities
- Talking about how they found their answers
- Learning about number as they are playing with numbers
- Writing less but computing more
- Children and teachers both having fun and enjoying mathematics





Key aspects for teachers

- Ongoing professional learning for teachers
- Understanding and using the Numeracy Continuum
- Implementing the assessment process
- Monitoring students' progress
- Program implementation within a whole class setting- no withdrawal
- Developing Learning Plans which focus on differentiation for individuals and groups
- Incorporating short, focused, frequent numeracy activities into the teaching program.



Targets

The TEN initiative has end of year minimum achievement targets for Kindergarten, Year 1 and Year 2 students. Teachers regularly monitor students progress against these targets.

Teachers will use their knowledge of the Numeracy Continuum and TEN strategies to plan teaching and learning opportunities for all children to access the content of the NSW Mathematics Syllabus.



Everyday Maths

- 1. Think about the activities you have done today that involve using numeracy skills
- 2. Discuss them with the person next to you
- 3. Share and discuss with the entire group





What maths have you used today?





money

measurement



time







numeral identification





How you can support your child's learning in maths?

- Share a positive attitude towards maths with your child
- Talk about mathematics and solving problems
- Ask your child what they have learnt in maths
- Involve your child in activities such as counting, using money, cooking and identifying numbers in the environment
- Play card games and board games using dice as a family









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Mathematics at Home

Tens Frames



How many counters can you see? How many more to 10? What is our number sentence? What about subtraction?

Tens Frames



How many counters can you see? How many more to 10? What is our number sentence? What about subtraction?

Hundreds Chart

I	2	3	4	5	6	7	8	9	10
II	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1	2	3	ц	Б	6	7	8	٩	10
<u>'</u>	4	•	'	•	•	'	•	'	10
Ш	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Ι	2	3	4	5	6	7	8	٩	10
П	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	<mark>64</mark>	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

What patterns can you see?

What might happen if we count by 4s? Now that we can count by 10s, can we count by 20s?





Make a 2digit number



Make a 2digit number



What do you know about this number?

Number Bust!

There are 5 tens	There are 3 ones	The 5 is positioned in the tens place	The 3 is positioned in the ones place
It is the number after 52	It is the number before 54	If you add 47, you get to 100	It costs \$53 to buy?
	The length of my table is 53 cm	What else?	



Make a 3digit number

Number Bust!

Number Lines



Multiplication Facts



X	1	2	3	4	5	6	7	8	9	10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

1	0	20
	э,	23

1s, 2s	<u> </u>										
	X	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								
	4	4	8								
	5	5	10								
	6	6	12								
	7	7	14								
	8	8	16								
	9	9	18								
	10	10	20								

55 105	¥			-							
33, 103	X	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			15					30
	4	4	8			20					40
	5	5	10	15	20	25	30	35	40	45	50
	6	6	12			30					60
	7	7	14			35					70
	8	8	16			40					80
	9	9	18			45					90
	10	10	20	30	40	50	60	70	80	90	100

35, 45											
	X	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	18	24	28	32	36	40
	5	5	10	15	20	25	30	35	40	45	50
	6	6	12	18	24	30					60
	7	7	14	21	28	35					70
	8	8	16	24	32	40					80
	9	9	18	27	36	45					90
	10	10	20	30	40	50	60	70	80	90	100

Square											
number	X	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	18	24	28	32	36	40
	5	5	10	15	20	25	30	35	40	45	50
	6	6	12	18	24	30	36				60
	7	7	14	21	28	35		49			70
	8	8	16	24	32	40			64		80
	9	9	18	27	36	45				81	90
	10	10	20	30	40	50	60	70	80	90	100

Last											
facts	X	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	18	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
ſ	10	10	20	30	40	50	60	70	80	90	100





DEVELOPED BY MONTELEONE, C. (2019)

Real-life Mathematics at Home



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