

2024 Maths Assessment Snapshot Checkpoints for Number & Algebra

Phase 1a - Years 0/1 (Focus: 0-10) (1st 6 months & 1st year).

Phase 1b - Years 1/2 (Focus=10-20) (1st year)

Phase 1c - Year 2 (Focus=up to 100 & 1000) (2nd year)

Phase 1d - Year 3 (Focus=up to 10,000) (3rd year)

Phase 2a - Year 4 (Focus=up to 10,000) (4th year)

Phase 2b - Year 5 (Focus=up to 100,000) (5th year)

Teacher notes.

- Please note, that this resource is ongoing, so it will have further Phases added as they are completed. As it is also an area that I am still coming to grips with, (Phase levels), some changes may be ongoing to any of the below sheets. It is not absolute, but my attempt to try and put something together that is useful to me.
- Not all concepts in Number & Algebra have been included, although I have tried to include most of them based on each phase.
- These Assessment Snapshot Checkpoints could be used in a number of ways. This could include either doing it as a 'before/pre-test' and/or, an 'after/post' test' at set dates during the year, or it could be an ongoing assessment task, where different parts are tested/assessed at different times. They could be done as a formal test, or as an informal test. It could be where it is done independently, or where the teacher reads out the questions. In some instances, it could also be where the child writes answers on a whiteboard/book, and where the teacher writes the results on the sheet. As always, there is no set way. Just use it in a way which bests works for you and your class.
- The sheets could be used as they are, or enlarged to A3 size to make the space and text easier to read. The opposite A3 side could also be where the kids write some of their answers as evidence, as opposed to possible whiteboard use.
- There are similar crossovers in Phase 1d (Year 3) and Phase 2a (Year 4).
- These could be used as group or individual snapshot checkpoint assessments, as well as being used as a checklist for completed concepts, and concepts/skills/areas yet to be focussed on.

Phases	Curriculum Levels	Year levels
1a	1	Years 0-1
1b	1	Years 1-2
1c	1	Year 2
1d	2	Year 3
2a	2	Year 4
2b	3	Year 5
2c	3	Year 6
3a	4	Year 7
3b	4	Year 8

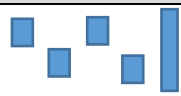
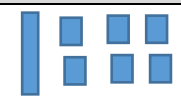
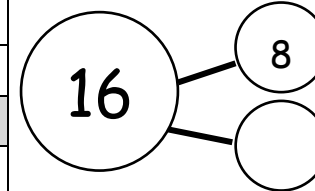
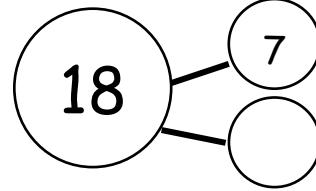
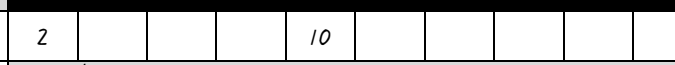
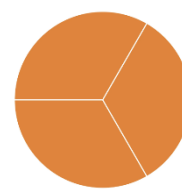
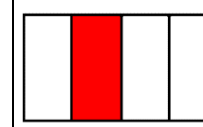
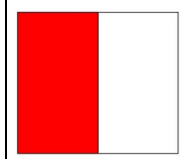
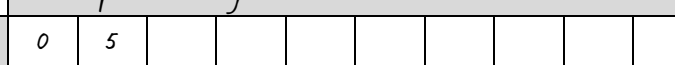


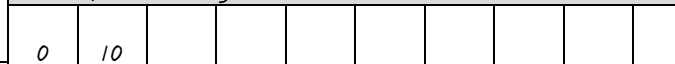
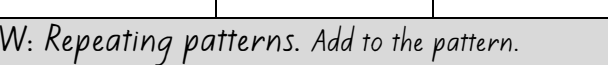

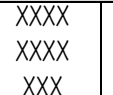
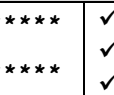

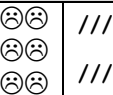
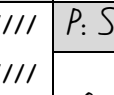
Maths Assessment Snapshot Checkpoint - Number & Algebra - Phase 1a - Years 0/1 (Focus: 0-10) (1st 6 months & 1st year).

Name: _____ Year: _____ Class: _____ Test Date/s: _____ Suggested Phase/Year: _____

A: Write the numbers 0-10 (forwards)						J: Word problems - addition to 10						S: Matching words and numerals (to 10)						
0						How many legs do 3 people have?						One	2		7	Six		
						How many lollies are there if 2 people have 3 each?						Two	5		8	Seven		
B: Write the numbers 10-0 (backwards)						K: Word problems - subtraction from 10						Three						
10						I had 6 lollies and ate 4. How many left?						Four	3		9	Eight		
						I had 10 biscuits and ate 3. How many left?						Five	4		10	Nine		
C: Fill in the missing numbers (before & after)						L: Place Value. What numbers do these show?						T: Grouping (introduction to times concept)						
	3				5							If there are 2 people, how many arms do they have altogether?						
	7				9													
D: Comparisons (< > =)						M: Number Bonds						U: Sharing (introduction to division concept)						
3		1		8	7+1							If 3 people have 3 biscuits each, how many biscuits do they have altogether?						
4		6		9	10							If I had 6 lollies and there were 3 people, how many lollies would each person get?						
E: Ordering (smallest to highest)						N: Skip counting in 2's (to 10 and 20)						V: Wholes (1/1) & Halves (1/2) & Quarters (1/4)						
3	9	5	10	1	8	2	4											
F: Ordering (highest to smallest)						2	4					1 or 1/2 or 1/4		1 or 1/2 or 1/4		1 or 1/2 or 1/4		
2	8	4	9	6	10	2	4				14	16						
G: How many are in each box? Representations						O: Skip counting in 5's												
☺☺☺☺	XX	*****	✓✓✓✓	☹☹☹☹	/////	0	5											
			✓✓✓✓	☹☹☹☹	/////	P: Skip counting in 10's												
						0	10											
H: Addition to 6			I: Subtraction from 6			Q: Addition to 10			R: Subtraction from 10			W: Repeating patterns. Add 2 more to the pattern						
3 + 3 =			6 - 3 =			3 + 7 =			10 - 7 =									
4 + 2 =			6 - 2 =			4 + 6 =			10 - 6 =			_____						
1 + 5 =			6 - 5 =			1 + 9 =			10 - 9 =			_____						
0 + 6 =			6 - 0 =			10 + 0 =			10 - 0 =			_____						


Maths Assessment Snapshot Checkpoint - Number & Algebra – Phase 1b – Years 1/2 (FOCUS=10-20) (1st year)

Name: _____ Year: _____ Class: _____ Test Date/s: _____ Suggested Phase/Year: _____

A: Write the numbers 10-20 (forwards)						J: Word problems - addition to 20						S: Matching words and numerals (to 10)							
10						13 iceblocks + 5 iceblocks = how many iceblocks?						Tahi	2		7	Ono			
						How many lollies are there if 5 people have 4 each?						Rua	5		8	Whitu			
B: Write the numbers 20-10 (backwards)						K: Word problems - subtraction from 20						T: Grouping (introduction to times concept)							
20						I had 16 lollies and ate 3. How many left?						Toru	1		9	Waru			
						I had 17 biscuits and ate 7. How many left?						Wha	3		10	Iwa			
						L: Place Value. What numbers do these show?						Rima	4		6	Te kau			
C: Fill in the missing numbers (before & after)						 						If there are 5 people, how many arms do they have altogether?							
	13				20							If 6 people have 3 biscuits each, how many biscuits do they have altogether?							
	16				17	M: Number Bonds						U: Sharing (introduction to division concept)							
D: Comparisons (< > =)						 						If I had 18 lollies and there were 2 people, how many lollies would each person get?							
13		11			20								19	If there were 4 people and I had 12 biscuits, how many biscuits would each person get?					
15		15			12		15	N: Skip counting in 2's (to 20)						V: Wholes (1/1) & Halves (1/2) & Quarters (1/4)					
E: Ordering (smallest to highest)												  							
18	12	20	11	16	19													1 or 1/2 or 1/4	
						O: Skip counting in 5's						W: Repeating patterns. Add to the pattern.							
F: Ordering (highest to smallest)												 							
10	13	14	17	15	20													1 or 1/2 or 1/4	
						P: Skip counting in 10's						R: FoF Subtraction from 20							
G: How many are in each box? Representations																			
     	Q: FoF Addition to 20																	S: Matching words and numerals (to 10)	
						13 + 7 =						20 - 7 =							
						7 + 13 =						20 - 13 =							
						12 + 7 =						19 - 7 =							
						7 + 12 =						19 - 12 =							
H: Addition to 20						I: Subtraction from 20						T: Grouping (introduction to times concept)							
13 + 3 =						16 - 3 =						If there are 5 people, how many arms do they have altogether?							
14 + 2 =						18 - 2 =						If 6 people have 3 biscuits each, how many biscuits do they have altogether?							
15 + 5 =						16 - 5 =						If I had 18 lollies and there were 2 people, how many lollies would each person get?							
10 + 6 =						12 - 0 =						If there were 4 people and I had 12 biscuits, how many biscuits would each person get?							

Maths Assessment Snapshot Checkpoint - Number & Algebra – Phase 1d – Year 3 (Focus=up to 10,000) (3rd year)

Name: _____ Year: _____ Class: _____ Test Date/s: _____ Suggested Phase/Year: _____

A: Write the next number (up to 1000)						J: Word problems – addition & subtraction						T: Place Values (PV), Total Values (TV)																							
63		101		899		4 people had \$100.00 each. How much together? You have \$50.00 and spend \$20.00. How much left?						23	456	1456	8541																				
24		150		904								PV=	PV=	PV=	PV=																				
B: Write the next number (up to 10,000)						K: Word problems – multiplication						TV=	TV=	TV=	TV=																				
2000		2450		3600		1. How many ears do 5 people have? 2. 5 motorbikes have how many wheels?						U: 2 digit multiplication (no renaming)																							
4999		5999		8888								42x2=	34x2=																						
C: Fill in the missing numbers (before & after)						L: Place Value Blocks						V: Ordinal Numbers (1 st , 2 nd , 3 rd etc)																							
	89			250		Use blocks/whiteboards to show the following: 1. 35 2. 154 (using only 10's & 1's) 3. 365						Start	G	F	I	A	Finish																		
	4000			3581									J	D	C	B		H																	
D: Comparisons (< > =)						M: Rounding to 10's / Decades & 100's						1. Which 2 letters will probably come in last? 2. Who will come in 3 rd ? 3. Who will be 5 th ?																							
256		652		4895	4859	(10's) 12=	42=	87=	92=																										
2000		2001-1		2490	2409	(100's) 102=	166=	249=	501=	W: Single Digit Division (no remainders)																									
E: Ordering (smallest to highest – up to 1000)						N: Expanded Numerals / Values						42 ÷ 2=	422 ÷ 2=	633 ÷ 3=																					
100	254	145	65	555	56	1. 39= 2. 624= 3. 2657=																													
F: Ordering (smallest to highest – up to 10,000)						O: Skip counting in 2's						X: Fractions 1/2, 1/3, 1/4, 1/5, 1/6, 1/8 + find a fraction of a unit Draw shapes, (on paper or whiteboards), which show the following fractions.																							
10000	9999	320	32	3200	9909	96																													
G: Money						P: Skip counting in 5's						1/2 1/3 1/4 1/5 1/6 1/8																							
20c+20c+20c=	10c+20c+50c=	\$2.00+\$5.00=				895																													
I had a \$10.00 note. I spent \$2.50. What change did I get back?												Q: Skip counting in 10's																							
H: FoF (Family of Facts) 4 ops						I: Doubles						R: Odd & Even Numbers						S: Times Tables & Division						Y: Partitioning (+ & -) 2&3 digits (no renaming)											
																														12+8= 8+12= 40+40= 35 48					

Maths Assessment Snapshot Checkpoint - Number & Algebra – Phase 2a – Year 4 (Focus=up to 10,000) (4th year)

Name: _____ Year: _____ Class: _____ Test Date/s: _____ Suggested Phase/Year: _____

A: Write the next number (up to 1000)						J: Word problems – some/all 4 operations (+, -, x, ÷)						S: Place Values (PV), Total Values (TV)						
98		113		900		1. If I climbed 240 steps going up, and then the same going down, how many steps did I step on? 2. If I only climbed half way and back, how many steps did I step on? 3. Share 21 lollies between 3 people.						213	456	1456	8541			
39		164		877								PV=	PV=	PV=	PV=			
B: Write the next number (up to 10,000)						K: Place Value Blocks						T: 2 digit multiplication (no renaming)						
2500		3565		6999								32 x 2 =	41 x 2 =					
5000		1010		9999		U: Single Digit Division (no remainders)												
C: Less and More (*also to show on a numberline) ←+++++→						L: Rounding to 10's / Decades & 100's						V: Fractions 1/2, 1/3, 1/4, 1/5, 1/6, 1/8 Draw the fractions shown below.						
	-1	-10	-100	+1	+10	+100	Use blocks/whiteboards to show the following: 1. 39 2. 163 (using only 10's & 1's) 3. 555						28 ÷ 2 =	888 ÷ 4 =	333 ÷ 3 =			
350																		
D: Comparisons (< > =)						M: Expanded Numerals / Values. Expand the numbers						W: Equivalent Fractions https://www.youtube.com/watch?v=brZ0PhcQe2Y						
182		128		500								5000	(10's) 123= 452= 817= 932=					
350+20		370		7777		6789	(100's) 123= 452= 817= 932=						Numerator=Top Denominator=Bottom Equivalent=same as					
E: Ordering (smallest to highest – up to 1000)						N: Skip counting in 2's						X: Groups of 10 in 3 digit numbers						
199	600	56	555	304	340							1. What are the equivalent fractions for...						
						2. Now draw examples to show the above equivalent fractions.						1/2 =	1/4	1/6	1/8	1/10		
F: Ordering (smallest to highest – up to 10,000)						O: Skip counting in 5's						Y: Partitioning (+ & -) 2&3 digits (no renaming)						
3000	9000	7000	6000	5000	200							Using a fraction wall chart, which of these are NOT equivalent fractions for 1/3? 2/6 2/4 3/9 3/7						
G: New Zealand Money 'c'=cents '\$'=dollars						P: Skip counting in 10's						123 456 239 999						
50c+50c+50c=		50c+20c+20c=		\$5.00+\$5.00=														
I had a \$20.00 note. I spent \$12.50. What change did I get back?						Q: Odd & Even Numbers						R: Times Tables & Division						
H: FoF (Family of Facts) 4 ops																		I: Doubles & Halves
						15+5=		5+15=		30+30=		33		49		4x		
20-5=		20-15=		50+50=		28		304		÷4		÷2		÷5		÷10		
4x5=		5x4=		1/2 of 20=		560		1023		51 + 24 = 76 - 36 =								
20÷5=		20÷4=		1/2 of 40=		8000		3584										
584 + 432 = 857 - 554 =						857 - 554 =												

Maths Assessment Snapshot Checkpoint - Number & Algebra - Phase 2b - Year 5 (Focus=up to 100,000) (5th year)

Name: _____ Year: _____ Class: _____ Test Date/s: _____ Suggested Phase/Year: _____

A: Write the next number (after)						J: Word problems – mixed operations (+, -, x, ÷)						R: Place Values (PV), Total Values (TV)						
559		1035		9999		1. There were 5 people who had \$20.00 each. They put all their money together and spent \$64.00. 2 people then left, so they shared what change they had left between the remaining 3 people. 1. How much did each of the 3 people get?	2143	2556	51456	8525								
11026		35012		49999			PV=	PV=	PV=	PV (2)=								
B: Write the number before							TV=	TV=	TV=	TV=	S: Groups of 10 in 3 digit numbers							
← 23000		← 5600				K: Single digit division (remainders but no end remainders)						T: Fractions, Decimals & Percentages						
← 12325		← 100,000				42 ÷ 7 =	4200 ÷ 4 =	3267 ÷ 3 =		Put each line in order from smallest to largest								
C: Less and More										1/2	1/3	1/4	1/5	1/6	1/7			
	-10	-100	-1000	+10	+100	+1000	L: Rounding to 10's / Decades & 100's using \$ & #'s						0.5	0.33	0.25	0.2	0.16	0.14
64539							(10's) 23 =	\$152.00 =	887 =	\$87.00 =	50%	33.33%	25%	20%	16.67%	70%		
D: Comparisons (using '<' '>' symbols)						M: Partitioning (expanded numerals)						Draw examples to show the following						
36042		36402		50000		49999+1	24,203 =											
10050		10500		32965		32695	85,444 =											
E: Ordering (smallest to highest)						N: Recombining (compact numerals)						U: Equivalent & Simplified Fractions						
35608	79016	1039	10039	79106	99999	8000 + 100 + 20 + 4 =												
F: Read, then write the numbers shown below						30,000 + 1000 + 600 + 20 + 4 =												
G: New Zealand Money 'c' = cents '\$' = dollars						O: Adding & subtracting whole numbers (renaming)						1. What are the equivalent fractions for...						
1. \$2.00 + \$2.00 + 50c + 50c + 20c =			2. \$15.00 + \$25.00 =			46 + 25 =	56 - 28 =			Using a fraction wall chart, which of these are NOT equivalent fractions for 1/2? 2/4 4/6 3/6 1/8								
3. If I had \$10.20 in coins, what coins could I have?						365 + 425 =	465 - 173 =			Simplify these fractions: 3/6 4/8 8/12 2/8 4/12								
4. I had \$25.00 and spent \$7.00. What did I have left?						6544 + 4064 =	8941 - 2590 =			V: Find the following fractions of the numbers								
H: FoF (Family of Facts) & ops			I: Doubles & Halves			P: Multiplying (renaming)			Q: Times Tables & Division			W: Money, fractions, decimals and percentages						
12 + 8 =	8 + 12 =	30,000 + 30,000 =				42 x 3 =	554 x 5 =		All tables to 10 (x & ÷)			1. Item was \$20.00 but has 10% off. New price = \$						
20 - 8 =	20 - 12 =	2500 + 2500 =				42 x 23 =	23 x 33 =					2. Item was \$18.00 but is now 1/2 price. New price = \$						
6 x 7 =	7 x 6 =	1/2 of 6000 =				423 x 23 =						3. My bus ticket of \$24.00 is now only a 1/4 of the normal price. New price = \$						
42 ÷ 7 =	42 ÷ 6 =	1/2 of 80,000 =																

