



Numeracy Baseline Assessment

Student name: _____

Date of birth: _____

ID Number: _____

Date of entry to school: _____

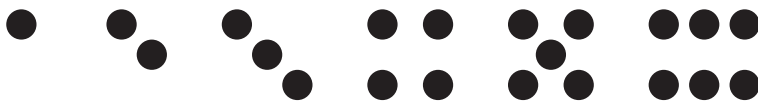
Assessment	Score	Curriculum
Baseline		
After 1 year in school		

Number Knowledge

Data may be collected from contextual situations as they occur or you may need to set up a situation in order to collect the data.

Ensure the situation is relaxed and informal. Young students often enjoy a one on one situation with their teacher. Make it engaging and meaningful to the student.

Subitizes dice patterns



1. _____ Not able to subitize
2. _____ Subitizes 1 or 2
3. _____ Subitizes 3 or 4
4. _____ Mostly subitizes
5. _____ Confidently subitizes

Patterning

Repeating patterns with two or more elements.

Copies a,b,a,b pattern	Continues a,b,a,b pattern	Creates a,b,a,b pattern and identifies repeat	Continues pattern with at least 3 elements	Creates pattern with at least 3 elements and identifies repeat
1.	2.	3.	4.	5.

Counting Knowledge

Rote counting sequence

No sequence	Counts to 5	Counts to 10	Counts to 20	Counts beyond 20
1.	2.	3.	4.	5.

Counts a set of objects 1-1

Unable to count	Counts to 5	Counts to 10	Counts to 20	Counts beyond 20
1.	2.	3.	4.	5.

Makes a set of objects

Unable to make	Makes sets to 5	Makes sets to 10	Makes sets to 20	Makes sets beyond 20
1.	2.	3.	4.	5.

Number Operations

Joins two sets of objects within 10

Does not understand question	Counts each set of objects	Counts all objects together	Counts on from either number	Recalls fact
1.	2.	3.	4.	5.

Shares a set of 12 objects into equal groups

Does not understand question	Partitions randomly	Shares unequally	Equal shares in one way	Demonstrates multiple equal shares
1.	2.	3.	4.	5.

Numerical Identification

Ask students to identify numbers in a random order or notice from their play.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
40	60	35	57	78	100	104	113	182	395

Recognises 2 nos. or less	Recognises up to 5 nos.	Recognises all nos to 10	Recognises all nos. to 20	Recognises numbers beyond 20
1.	2.	3.	4.	5.

Ordering Numbers

If students can identify numbers, give students range of digits to put in order.

Unable to order	Orders 1 - 3	Orders 1 - 5	Orders 1 - 10	Orders 1 - 20
1.	2.	3.	4.	5.

Teacher Notes and Guidance

Assessment is for the benefit of the student and involves the student. It must be valid and fair, suited to purpose and support teaching and learning goals.

The purpose of this assessment used on entry to school is to identify students baseline in mathematical knowledge to progress through a programme of learning covering level 1 of the Mathematics and Statistics Curriculum Learning Area.

It will identify those students who require extra support in developing the knowledge in order to begin a programme of learning at level 1.

This assessment can also be reused after one year at school to identify progress made over the first year at school. It could also be used at a later date for students with specific learning needs whose progress may be delayed.

Collecting data from young students

Students under 7 will rarely respond to a test situation in the same way as older students. They can appear to give right and wrong answers quite randomly. A meaningful context is essential to their understanding of the task.

The data should be collected from careful observation during normal class activities or it may be necessary to sit with an individual and "play" some activities to collect the data. No specific activities are provided, they should come from your classroom.

At all times the student should not be put under any pressure to perform.

When the data for all sections has been completed, probably over a 2 - 3 week period then total the number scored in each section to give an overall score.

The overall score is used to place a student in a particular curriculum level category in order to give a starting point for measuring progress over time.

For teaching and learning purposes make note of any particular strengths or weaknesses in your students by looking at each area rather than the overall score.

	Pre Level 1	Ready for Level 1	Early Level 1	Mid Level 1
Overall Score	8 - 12	13 - 23	24- 37	38 - 45

The version of the baseline assessment is an amended version of the original created with the following contributors.

Contributors to this assessment:

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Makauri Rural Kindergarten
Paikea Kindergarten
Pickering Street Kindergarten

To continue to measure progress in mathematical knowledge and skills throughout a student's time at primary school then the Wilkie Way Assessment Screens are available for purchase through www.thewilkieaway.co.nz
Level 1 Assessment Screen (mid 1 - early 2)
Level 2 Assessment Screen (upper 1 - early 3)
Level 3 Assessment Screen (upper 2 - early 4)
Level 4 Assessment Screen (upper 3 - early 5)



To measure progress in problem solving use the Primary Mathematics Assessment Tool available from www.edify.co.nz