Written in $N Z$ for $N Z$

## Number fnowledge

## Mathematics

## Student Workbook

## Book 1



Name:
Class:
Author: A. W. Stark



No part of this 'Write-on' Homework Student Book can be reproduced or photocopied by any means, or stored on a retrievel system or transmitted in any form or by any means without the written permission of the author.



## Note from the author:

About this resource ...

## Number Knowledge Student Workbook - Book 1 (Code: NKH1)

is one of a series of 8 resources written to support the NUMERACY PROJECT currently being implemented within many New Zealand schools. Within each resource in this series, the NUMBER KNOWLEDGE FACTS are systematically and methodically introduced, providing students with the 'building blocks' required to progress through the various NUMBER STRATEGY STAGES.

These resources have been compiled using the Achievement Objectives from the appropriate NUMBER and ALGEBRA STRANDS as stated in the document ....

Mathematics in the New Zealanagurriculum and information from the various resources of the ...
Numeracy Professional Development Project ... involving the Strategy Stages as listed below.

Completion Record Table - Write in the date when each sheet has beencompleted.

| $\begin{array}{\|c\|} \hline \text { Sheet } \\ \text { Number } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Date } \\ \text { Completed } \end{array}$ | $\begin{array}{\|c\|} \hline \text { Sheet } \\ \text { Number } \\ \hline \end{array}$ | $\begin{gathered} \text { Date } \\ \text { Completed } \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Sheett } \\ \text { Number } \\ \hline \end{array}$ | completed | $\begin{aligned} & \text { Seef } \\ & \text { number } \end{aligned}$ | Date Completed |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 |  |  |  | $27$ |  | 31 |  |
| 2 | - | 12 | - | 22 | $\square$ | 32 |  |
| 3 |  | (3) |  | 23 |  | 33 |  |
| 4 | ${ }^{\circ}$ | 14 |  | 24 |  | 34 |  |
| 5 | $\cdots$ | 15 |  | 25 |  | 35 |  |
| 6 |  | 7 |  | 26 |  | 36 |  |
| 7 |  | 17 |  | 27 |  | 37 |  |
| 8 |  | 18 |  | 28 |  | 38 |  |
| 9 |  | 19 |  | 29 |  | 39 |  |
| 10 |  | 20 |  | 30 |  | 40 |  |

## Note to Students:

I am sure you would love not to have to do homework. However, we will only get better at many things we do or learn, if we practise. I am sure you have heard the old saying 'practice makes perfect'.

In class you are shown and taught lots of new ideas. The reason for doing your homework is to practise what you have been taught in class. If you can do it on your own at home, or maybe with a little help from someone at home, then it shows you have remembered what you were shown in class.


No-one can make you learn. Your teachers, parents / caregivers and friends can help, but at the end of the day it's up to you. You do not have to always get it right, as long as you have tried to do the very best you can. Remember to ask for help if you do not understand or if you are not sure of what you have to do.

This resource has been written to help make doing your homework easier for bothyou and your teacher.
Good luck.

## Note to Parents / Caregivers:

You may not have found mathematics easy when you were at schoonor do you have to be good at it. All you have to do is encourage your son daughterto do the very best he she can. We cannot ask more rom our children, than they are able to give. Try to be realistic with your own expectations of how well youthink they should be doing at school.

To help your son daughter, here are some ideas
Provide a place where they can work quietly wit out too many distractions. Background music is okay, but television is too distracting because of the pictures.
■ Provide them with the equipment they need.
$\square \quad$ Help themwork out when is the bestime to ao their homework, encouraging them to establish
routines. Remember they do need some time off to enjoy themselves, so do not expect them to work all the time.
Give them plenty of encouragement and praise. Look at their work and sign each page when completed.

Our children need our support andencouragement if they are to do well. If your son / daughter is having a lot of trouble understanding the work, it may be a good idea to contact their teacher to talk about the best way you can help.

Good luck.
Successful learning requires teamwork.


## How to use this resource - Book 1

The purpose of this resource is for students to become familiar with saying and writing the numerals from 1 to 10 and counting up to 10.

There are 40 activity sheets in this resource. At this level, pupils will require adult input to be able to complete each activity. The worksheets are divided into groups
 of 10 and gradually get more difficult. Below is a summary of what is contained within each group of worksheets.

The information below has been included so that parents / care-givers can understand what is the aim of each activity, therefore are able to help.


Worksheets 21 to 30

| Activity on Worksheet | Teaching Ideas |
| :---: | :---: |
| Writing the missing numbers in a sequence from 1 to 10 | - Ask pupils to write in the missing numbers as they count from 1 to 10 or count from 10 to 1. |
| Writing the numbers 1 to 10 | - Ask pupils to practice writing the numbers (numeral) given on each worksheet. |
| Writing the number that comes after or before a given number for the numbers 1 to 10 . | - $\quad$ Cover up the numbers at the top of the page. <br> - Ask pupils to write the number that comes either after or before the given number. |
| Counting 1 to 10 pictures of animals or objects | - In this activity there are two different pictures in each box. Ask pupils to count and record the number of each picture. <br> Having written their answers, ask pupils to count ALL pictures. There are always 10 pictures, hence pupils get practice at counting up to 10 and are exposed to the combinations that add to 10. Example: 4 dolls \& 6 teddy bears. <br> Ask pupils to hold up the same number of as there are pictures. |
| Colouring-in from 1 to 9 pictures of mathematical shapes | - From this activity, pupils learn the natmes of several mathematical shapes. - $\quad$ Say the name of the shape and ask pupils to repeat. - $\quad$ Ask pupils to one of the sharpes and ask in the approprils what it is called. - Having shaded in the two different shapes, ask pupils to count the total number of shapes shaded. There are always 10 shaded shapes, hence pupils gain more practice at counting up to 10 and are exposed the combinations that add to 10 . Example: 3 trangles \& 7 circles. |
| Ordering numbers 1 to 10 | - Cover up the numbers at the top of the page. <br> Ask pupils to order the 3 or 4 numbers given, in order from smallest to largest or largest to smallest. |
| Worksheets 31 |  |
| Activity on Workst | Teaching |
| Writing the missing numbers in a sequence from 1 to 10 | - Ask pupilsto write in the missing numbers as they count from 1 to 10 or count - from to 1. |
| Writing the number that comes after or before a given number for the numbers 1 to 10 . | Cover up the numbers at the top of the page. <br> Ask pupils to writ the number that comes either after or before the given number. |
| Counting 1 to 10 pictures of ahimals or object | In this activity there are two different pictures in one box. Ask pupils to count and record the number of each picture. <br> Having written ther answers, ask pupils to count ALL pictures. There are always 10 pictures, hence pupils get practice at counting up to 10 and are exposed to the combinations that add to 10 . Example: 4 dolls \& 6 teddy bears. <br> Ask pupils to hold up the same number of fingers as there are pictures. |
| Colouring-in from 1 to 9 pictures of mathematical shapes | From this activity, pupils learn the names of several mathematical shapes. <br> Say the name of the shape and ask pupils to repeat. <br> Point to one of the shapes and ask pupils what it is called. <br> Ask pupils to shade in the appropriate number of shapes. <br> Having shaded in the two different shapes, ask pupils to count the total number of shapes shaded. There are always 10 shaded shapes, hence pupils gain more practice at counting up to 10 and are exposed to the combinations that add to 10. Example: 3 triangles \& 7 circles. |
| Ordering numbers 1 to 10 | - $\quad$ Cover up the numbers at the top of the page. <br> - Ask pupils to order the 5 or 6 numbers given, in order from smallest to largest or largest to smallest. |



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5.

| \begin{tabular}{ll\|l|l|}
\hline
\end{tabular} |
| :--- |
| AWS DO NOT PHOTOCOPY THIS PAGE |



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5.




Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5 .

| ( |
| :--- |
| AWS DO NOT PHOTOCOPY THIS PAGE |



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5 .




Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5.



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5.

|  | Copyright $\Theta_{2005}$ AWS Publications Ltd |
| :--- | :---: | :---: | :---: |

AWS DO NOT PHOTOCOPY THIS PAGE


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5.


# 髺  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5 .

|  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| AWS DO NOT PHOTOCOPY THIS PAGE |  |  |  |



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 | 5 |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5 .

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| AWS DO NOT PHOTOCOPY THIS PAGE |  |  |  |



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 7 | 2 |  |  |
| :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 5.



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .

$|$



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.
4025

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .

| 7 |
| :--- | :--- | :--- | :--- | :--- | :--- |

AWS DO NOT PHOTOCOPY THIS PAGE


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| $\eta$ |  |  |  |  |  |  |  |  | $\bigcirc$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .


AWS DO NOT PHOTOCOPY THIS PAGE

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .

 Copyright $\Theta_{2005}$ AWS Publications Ltd


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| $\dagger$ |  |  |  |  |  |  |  |  | $\square$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10.

|  | 3 | 3 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .

$|$


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10.

|  |  |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .

|  | Copyright $\Theta_{2005}$ AWS Publications Ltd |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

AWS DO NOT PHOTOCOPY THIS PAGE


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Say these numbers.
40250

Practise writing each number.


Write in the missing numbers as you count from 1 to 10 .


AWS DO NOT PHOTOCOPY THIS PAGE

# On: <br> Namber Ynowldyge Morshated 

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.

| 7 |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.

| $\boldsymbol{p}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...


$$
\text { Colour in } \boldsymbol{Q} \text { 新媪 (squares) }
$$




# 皆  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to $I$.

|  |  |  |  |  |  |  |  |  | $\square$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Practise writing each number.
Write the number that comes before ...

| 5 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |



Count the number of fish and starfish.


#  <br> Namber Ynowldyge Morshated 

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10 .

|  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Practise writing each number.
$\square$

Write the number that comes after ...


Colour in 3 (pentagons)



Count the number of balls and blocks


Colour in 7 (hexagons)
blocks
balls


# 笨 <br>  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to 1 .


Practise writing each number.

| Pry |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes before ...

© 7



Count the number of ducks and frogs.


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.


Practise writing each number.
$\square$

Write the number that comes after ...

$\cos +5.5$
Count the number of hats and clocks.
 Colour in 5 (新 (octagons)



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to $I$.


Practise writing each number.

| 5 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes before ...


## Count the number of turtles and ladybirds.



Colour in (rectangles)


$\square$


Write these numbers in order from smallest to largest.



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.


Practise writing each number.

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...

 Colour in 3 (hexagons)




Write these numbers in order from largest to smallest.


# 皆  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to 1 .

|  |  |  |  |  |  | 3 |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.

| $\boldsymbol{\eta}$ |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes before ...


Count the number of sharks and tigers.


Colour in
(diamonds or rhombus)

sharks


Colour in (桀 (octagons)

Write these numbers in order from smallest to largest.



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.


Practise writing each number.

| P分 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...



Colour in (pentagons)
5,6
$\square \square \square \square \square \square \square \square \square \square$
$\square \square \square$
$\square$

Write these numbers in order from largest to smallest.



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to $I$.

|  |  |  | 7 |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Practise writing each number.

| 3 |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Write the number that comes before ...


Count the number of pears and apples.


Colour in



Write these numbers in order from smallest to largest.


Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.

|  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...


Write these numbers in order from largest to smallest.

| 4 10$] 8$ 1 106 |  |
| :---: | :---: |

# 髺 <br>  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to 1 .

|  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...


Count the number of ice creams and pies.


8

Write the number that comes before ...


# $\frac{0}{00}$ <br> Namber Ynowldyge Morshated 

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.

|  | 3 |  | 5 |  |  |  | $\boldsymbol{q}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...


Write these numbers in order from largest to smallest.


# 髺 <br>  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to 1 .


Write the number that comes after ...
$\square$


Count the number of hamburgers and fries.
Write the number that comes before ...


Colour
in (hexagon)
 (rectang


Write these numbers in order from smallest to largest.

# 键 <br> Myuber Mnowlday 

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.

|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...


Write the number that comes before ...

Write these numbers in order from largest to smallest.


# 皆 <br>  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to $I$.

|  |  |  | $\rightarrow$ |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...

$5 \square 6$


Count the number of swings and slides.

slides


Write the number that comes before ...



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.

|  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Write the number that comes after ...


Write these numbers in order from largest to smallest.



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to 1 .


Write the number that comes after ...


Write these numbers in order from smallest to largest.

|  |  |  | 6 |  |  |  | $\square$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |



Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count from 1 to 10.

|  | 3 |  |  |  | 7 |  | $\boldsymbol{q}$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |



# 0. $\frac{0,5}{0-5}$ <br>  

Term: $\qquad$ Week: $\qquad$ Signed when completed (teacher or parent): $\qquad$
Write in the missing numbers as you count backwards from 10 to 1 .


Write the number that comes after ...


Write these numbers in order from smallest to largest.





