Leaps and Bounds is available in a variety of formats to suft your needs!

Print Teacher's Resource includes:

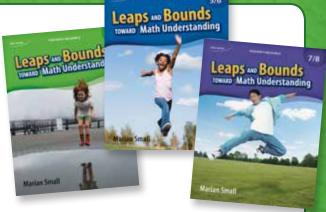
- Diagnostic assessment tools and Blackline Masters to precisely identify gaps in students' understanding
- Background information on why students might struggle and what misconceptions are revealed by the diagnostic tool
- Pathways providing open-ended intervention and more guided intervention for each student or group of students
- Teaching notes to support differentiated instruction, including good questions

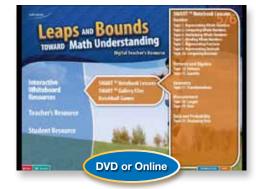
Digital Teacher's Resource includes:

- Complete Teacher's Resource in PDF format
- SMARTTM-certified Interactive Whiteboard activities providing extra practice and additional instructional support
- Interactive Whiteboard Kooshball games for extra practice
- PowerPoint versions of each of the Interactive Whiteboard files
- Illustrations from the Student Resource

Student Resource includes:

- Intervention activities for topics in every strand to support students who are working as many as 3 levels below grade
- Built-in tips and visuals to support student understanding
- Simple, clear language accessible to ELL learners
- CD-ROM version is text-modifiable





Leaps IND Bounds Leaps Bounds Math IInda Consumable, Blackline Masters, or CD-ROM 10/11

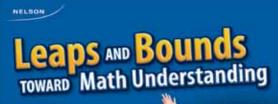


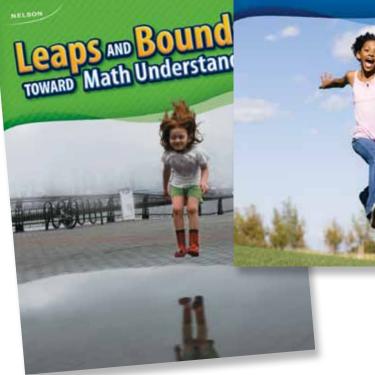
For more information, pricing, and sample lessons visit: www.nelson.com/leapsandbounds



1120 Birchmount Road Toronto ON M1K 5G4 416 752 9448 or 1 800 268 2222 Fax 416 752 8101 or 1 800 430 4445 email: nelson.orderdesk@nelson.com www.nelsonschoolcentral.com

Leaps and Bounds Toward Math Understanding New intervention for Grades 3–8 mathematics!





Canada's Learning Advantage



www.nelson.com/leapsandbounds

With Leaps and Bounds, mathematics intervention is as easy as 1, 2, 3!

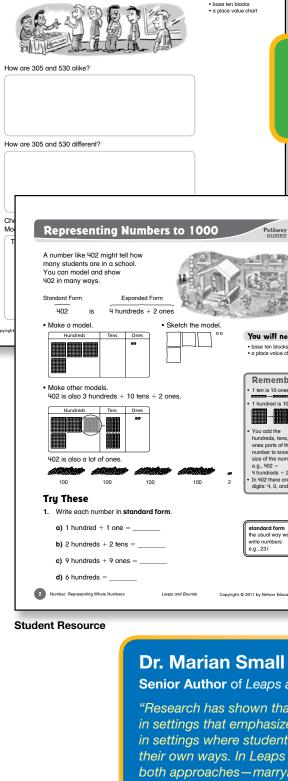
Leaps and Bounds Toward Math Understanding is carefully developed to help teachers support students who are struggling in mathematics with:

- Easy-to-use student and teacher resources to support students working as many as 3 levels below grade
- Diagnostic assessment for every topic to precisely pinpoint significant gaps in students' understanding
- Strategic lessons and questions for differentiating instruction that enable teachers to build on students' knowledge and close critical gaps in understanding
- A research-based intervention approach that is founded on how students learn math developmentally, based on the research of Dr. Marian Small

Representing Whole Numbers Diagnostic	 Write a number to match each model. 		
 Find 2 descriptions in the chart that match each number. Write the 2 letters for the matching descriptions in the blanks. 		Step 1: Administer the diagnostic assessment	Cha Mo Representing Num
a) 13 A 30 + 6 b) 18 B 3 hundreds + 13 ones c) 24 D 4 tens + 2 ones d) 36 E 1 ten + 3 ones e) 42 H 3 hundreds + 3 tens + 1 G 10 + 8 G 10 + 8 e) 42 I 6 tens + 3 ones	b)	•	T A number like 402 might tell how many students are in a school. You can model and show 402 in many ways. Standard Form Expander
1) 63	 4. Do the two 5s in the number 55 have the same value? Explain your thinking. 5. Write a number to match each description. a) 3 in the tens place b) 3 in the tens place, 2 in the ones place 		Copyright Copyright
2. Write each amount using numbers (e.g., 412).	c) 2 in the tens place, 1 in the hundreds place		Make other models. 402 is also 3 hundreds + 10 ter
a) five	d) 3 in the hundreds place, 4 in the ones place		Hundreds Tens Ones
b) seventeen	6. Fill in the blank to make each statement true.		
c) fifty-four	a) 20 is tens.		
d) seventy-one	b) 37 is 2 tens and ones.	Why might students struggle with representing whole numbers?	402 is also a lot of ones.
e) one hundred seventeen	c) 46 is tens and 16 ones.	Students might struggle with representing whole numbers for any of the following reasons:	100 100
f) seven hundred one	d) 143 is 13 tens and ones.	 Written conventions for numbers are based on place value. It is not intuitively obvious why the value of a digit changes depending on its 	Try These
	e) 510 is tens.	place in a numeral. For example, the value of the 3 in 302 is different from the value of 3 in 203.	1. Write each number in standa
	f) 200 is hundreds or tens.	 The digit 0 has no value but can be used as a place holder in numerals. A variety of representations may have the same value. 	a) 1 hundred + 1 one =
Number: Representing Whole Numbers Leaps and Bounds 34 NEL	NFI Leaps and Bounds 3/4 Number: P	Diagnostic Tool: Representing Whole Numbers	b) 2 hundreds + 2 tens =
Number: Representing Whole Numbers Leaps and Bounds 34 NEL	NEL Leaps and Bounds 34 Number: F	Use the diagnostic tool to determine the most suitable intervention for	c) 9 hundreds + 9 ones =
Tarakada Daarwaa		representing numbers. Provide Diagnostic Tool: Representing Whole Numbers, Teacher's Resource pages xx and xx, and have students complete it in writing	d) 6 hundreds =
Teacher's Resource		or orally. Have place value materials available for students to use (e.g., base ten blocks, 10-frames, place value charts).	Number: Bepresenting Whole Numbers

Each pathway precisely targets the pre-requisite learning students have missed which is causing gaps in their understanding!

Step 2: Select the intervention pathway



Representing Numbers to 1000

Kristen sold 305 tickets to the concert. Aki sold 530

Pathway 0

You will need

Teacher's Resource

See solutions on Teacher's Resource pages xx and xx. Intervention Pathways

Pathway 2: Representing Numbers to 100

· Pathway 3: Rep

If students

-d. 8b-r

If students a

c-f, 2c-d, 3c, 4, 5b-c, 6b-c,

1a-b. 2a-b. 3a-b. 4. 5a. 6a. 7a-b.

The purpose of the intervention pathways is to help students represent two-digit The purpose of the inter-tention pathways is to help students expresent working or three-digit numbers in a variety of ways so that ultimately they can do the si with four-digit numbers. There are 3 pathways: • Pathway 1: Representing Numbers to 1000

Use the chart below (or the Key to Pathways on Teacher's Resource pages xx to xx)

to determine which pathway is most suitable for each student or group of students

eacher's Res

cher's Resource pages xx-x. Ident Resource pages xx-xx

use Pathway 2: Representing Nu

student Resource pages xx-xx

use Pathway 3: Bepresenting Numb

acher's Resource pages xx-x. tudent Resource pages xx-xx

Leaps and Bounds 3/4

ce pages xx-x

0

Number: Representing Whole Numbe

ing Numbers to 20

Step 3: Choose an open-ended intervention or guided intervention based on your students' learning preferences or your instructional situation

0	2. α)	Model 501 using 6 base ten	blocks. Sketch you	r model.	
	ь)	Write the expanded form : hundreds +tens · Model 150 using 6 base ten	blocks. Sketch you		expanded form a way to write numbers that shows the value of each digit e.g., 2 hundreds +
e d art		Hundreds	Tens	Ones	3 tens + 1 one or 200 + 30 + 1
er aggege tens.	c)	Write the expanded form: 	blocks. Sketch you	r model.	
the					
e the her. ones 3 2.		Write the expanded form:			

Senior Author of Leaps and Bounds Toward Math Understanding

"Research has shown that underachieving students improve both in settings that emphasize explicit instruction and modelling, and in settings where students tackle more challenging problems in their own ways. In Leaps and Bounds, we recognize the value of both approaches—marrying conceptually-clear modelling and



practice with open questions that allow students to think more broadly, so that every student has an opportunity to achieve success."