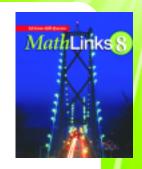




Guide to Reviewing

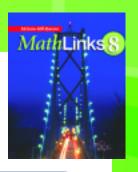
Selecting a resource to support the implementation of a new mathematics curriculum is a very important task that will impact students, teachers, and administrators for years to come.



Consider these *MathLink Advantages*

Feature	Example	The <i>Math</i> Links Advantage
Richness of Visuals	Pg. 2–3	 A rich variety of over 750 photos, graphs, illustrations, charts and cartoons provide context for the math, enhance readability, and engage students
A Tour of Your Text	Pg. viii–xii	Familiarizes students with the resource and highlights key features
Problem Solving and Strategies Chart	Pg. xiii–xvii	 This chart may be referenced by students throughout the course, and allows parents to coach their students at home
Chapter Opener	Pg 118-119	 Visually engaging 2-page spread introduces students to what they will learn in the chapter lists Key Words and What You Will Learn; and includes a Literacy Link
Literacy Links	Pg. 77	Provide strategies to help students read and understand the mathematics of the chapter
Foldables™	Pg. 4	 Foldables serve as graphic organizers that give students an opportunity to take responsibility for their learning
Math Links	Pg. 5	Serve as a chapter problem and helps connect math to students' personal experiences
Wrap It Up!	Pg. 39	 Gives students the opportunity to demonstrat their understanding of the chapter concepts Can be used as a summative assessment
Focus On	Pg. 6	Identifies specific skills students will learn during each lessonStudent-friendly language
Three-Part Lesson	Pg. 6-17	 A classroom-tested method of presenting mathematical concepts that allows for ease of navigation for students, teachers, and parents
Show You Know	Pg. 48	 Provides student and teacher with ongoing feedback
Examples	Pg. 49	Provide assistance for absent students and at home coaching
Web Links	Pg. 53	 Provide ICT connection, as well as links to extra practice or information on the MathLink Online Learning Centre CONTINUED >

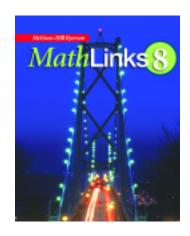
Guide to Reviewing



< CONTINUED

Feature	Example	The <i>Math</i> Links Advantage
Tech Links	Pg. 84	Provide information about using software and/or a calculator
Geography Link	Pg. 123	Links the current topic to history
Science Link	Pg. 260	Links the current topic to science
Art Link	Pg. 317	Links the current topic to sports
Did You Know?	Pg. 145	 Provides interesting facts related to a given scenario
Thought Balloons	Pg. 64	Provide students with ideas and tips to work through a questionShow metacognition
Key Ideas	Pg. 127	Summarizes the skills and concepts of a lessor
Communicate the Ideas	Pg. 128	 Provides opportunities for students to verbalize or explain what they have learned
Mental Math	Pg. 140	 Boxes with the ME (Mental Math and Estimation) logo provide strategies for mental math The ME logo by itself indicates questions where mental math should be used
Strategies	Pg. 205	Suggest strategies that students might use whe working on a problem
Chapter Review	Pg. 150-151	 Provides students with extra practice. It is organized by section so that students can look back if they need help with a question
Practice Test	Pg. 190-191	 Can be used as formative assessment to pre- pare students for the Chapter Test, which appears as a Blackline Master on the teacher CD-ROM
Math Games	Pg. 322	 Presents an alternative to repetitive exercise and allows students to have fun while they learn
Challenges in Real Life	Pg. 323	Provide real-world contexts; most have multi- ple entry points
Task	Pg. 327	 Require students to apply what they have learned in the four previous chapters to solve real-life, broad-based problems. Can be used as a alterative to the Chapter Tes

Dedicated to Meeting the Diverse Needs of Grades 7-9 Students and Teachers



A Message from the Author Team

MathLinks is a new resource that meets the outcomes of the 2006 WNCP Common Curriculum Framework for 7–9 Mathematics.

We used current educational research and practical classroom experience to help us design a resource to meet the needs of Western Canadian students and teachers. Success for students was paramount in the development process. We continually asked ourselves two key questions:

- Will this help the students in learning mathematics?
- Will this support teachers in implementing the new curriculum?

Our instructional model includes a **variety of instructional and assessment techniques** that accommodates the diverse needs of both students and teachers.

We would like to thank the over 350 educators and 950 students who provided valuable feedback and insight during the development of this mathematics program.

— The Author Team

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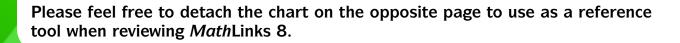




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- 10.4 Modelling and Solving Two-Step Equations: a(x+b) = c

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Development Team

Authors

Bruce McAskill, B.Sc., B.Ed., M.Ed., Ph.D. Mathematics Consultant Victoria, British Columbia

Wayne Watt, B.Sc., B.Ed., M.Ed. Mathematics Consultant Winnipeg, Manitoba

Stella Ablett, B.Sc., B.Ed., M.Ed. Mulgrave School, West Vancouver (Independent) British Columbia

Blaise Johnson, B.Sc., B.Ed. School District 45 (West Vancouver) British Columbia

Greg McInulty, B.Sc., B.Ed. Edmonton Public Schools Alberta

Tricia Perry, B.Ed. St. James-Assiniboia School Division Manitoba

Michael Webb, B.Sc., M.Sc., Ph.D. Mathematics Consultant Toronto, Ontario

Rick Wunderlich, B.Ed. School District 83 (North Okanagan/Shuswap) British Columbia

Chris Zarski, B.Ed., M.Ed. Evergreen Catholic Separate Regional Division No. 2 Alberta

Assessment/Pedagogy Consultants
Bruce McAskill, B.Sc., B.Ed., M.Ed., Ph.D.
Mathematics Consultant

Mathematics Consultant Victoria, British Columbia

Wayne Watt, B.Sc., B.Ed., M.Ed. Mathematics Consultant Winnipeg, Manitoba

Chris Zarski, B.Ed., M.Ed. Evergreen Catholic Separate Regional Division No. 2 Alberta

Aboriginal Consultant Cheryl Makokis

Edmonton Public Schools Alberta

Gifted Consultant Robert Wong

Edmonton Public Schools Alberta

Literacy and Numeracy Consultant

Ian Strachan

Calgary Board of Education Alberta

Problem Solving, Mental Math, and Estimation Consultant

Greg McInultyEdmonton Public Schools
Alberta

Special Education Consultant

Joanne Aldridge Edmonton Public Schools Alberta

Technology Consultant

Ted Keating

Thompson Rivers University British Columbia

ESL Consultant

Maureen Sims

Special Education and ESL Teacher Toronto, Ontario

Advisors

Ralph Backé

The Winnipeg School Division Manitoba

Eric Balzarini

School District 35 (Langley) British Columbia

Sandra Harazny

Regina Roman Catholic Separate School Division No. 81 Saskatchewan

Erv Henderson

Mathematics Consultant Saskatchewan

Emily Kalwarowsky

Edmonton Catholic Separate School District No. 7 Alberta

Wanda Lloyd

Calgary Roman Catholic Separate School District No. 1 Alberta

Tony May

West Point Grey Academy (Independent) British Columbia

James McConville

School District 43 (Coquitlam) British Columbia

Enzo Timoteo

Mathematics Consultant Edmonton, Alberta

Reviewers

Aboriginal Reviewer

Paul Paling

School District 52 (Prince Rupert) British Columbia

Inuit Reviewer

Christine Purse

Mathematics Consultant British Columbia

Métis Reviewer

Greg King

Mathematics Consultant Alberta

Reviewers

Lisa Allen

Regina School District 4 Saskatchewan

Ryan Bailey

Northern Lights School Division No. 69 Alberta

Tammy Baydock

St. James-Assiniboia School Division Manitoba

Linda Benson

Seven Oaks School Division 10 Manitoba

Scott Carlson

Golden Hills School Division No. 75 Alberta

Kelly Choy

Yukon Education Yukon

Dale Cooper

Edmonton Public Schools Alberta

Nicolas Curci

Louis Riel School Division Manitoba

Brad Epp

School District 73 (Kamloops/Thompson) British Columbia

Victor Epp

School District 5 (Southeast Kootenay) British Columbia

Shelly Fletcher

St. James-Assiniboia School Division Manitoba

Barb Gajdos

Calgary Roman Catholic Separate School District No. 1 Alberta

Domenico Gallo

Elk Island Catholic Separate Regional Division No. 41 Alberta

Laurie Gatzke

Regina School District 4 Saskatchewan

Lauri Goudreault

Holy Family Catholic Regional Division No. 37 Alberta

Gord Grams

Foothills School Division No. 38 Alberta

Doug Jonasson

The Pembina Trails School Division Manitoba

Heather Jones

St. James-Assiniboia School Division Manitoba

Jeff Krar

Calgary Science School (Independent) Alberta

Luc Lerminiaux

Regina School District 4 Saskatchewan

Miles MacFarlane

Seven Oaks School Division 10 Manitoba

Martin Mazurek

Evergreen Catholic Separate Regional Division No. 2 Alberta

Marg McDonough

Mathematics Consultant British Columbia

Jim Mennie

Mathematics Consultant British Columbia

Merry Nenadov

Calgary Board of Education Alberta

David Noonan

Elk Island Catholic Separate Regional Division No. 41 Alberta

Margo Perry

Edmonton Catholic Schools Alberta

Donna Prato

Edmonton Public Schools Alberta

Christine Prystenski

St. James-Assiniboia School Division Manitoba

Nancy Revda

St. James-Assiniboia School Division Manitoba

Tom Sherbrook

Winnipeg School Division No. 1 Manitoba

Robert Shkrobot

Edmonton Public Schools Alberta

Bill Slevinsky

St. Albert School District No. 6 Alberta

Ian Strachan

Calgary Board of Education Alberta

Maureen Switzer

St. James-Assiniboia School Division Manitoba

Kandel Vick

Grande Yellowhead Regional Division No. 35 Alberta

Greg Woitas

Calgary Roman Catholic Separate School District No. 1 Alberta

Anthony Yam

School District No. 41 (Burnaby) British Columbia

Shannon Zanni

Regina School District 4 Saskatchewan

Field Testers

Amy Bado

Evergreen Catholic Separate Regional Division No. 2 Alberta

Ryan Bailey

Northern Lights School Division No. 69 Alberta

Linda Benson

Seven Oaks School Division 10 Manitoba

Nicolas Curci

Louis Riel School Division Manitoba

Victor Epp

School District 5 (Southeast Kootenay) British Columbia

Shelly Fletcher

St. James-Assiniboia School Division Manitoba

Patrick Giommi

St. Margaret's School (Independent) British Columbia

Sandra Harazny

Regina Roman Catholic Separate School Division No. 81 Saskatchewan

Blaise Johnson

School District 45 (West Vancouver) British Columbia

Emily Kalwarowsky

Edmonton Catholic Separate School District No. 7 Alberta

Jeff Krar

Calgary Science School (Independent) Alberta

Patti Lovallo

Edmonton Public Schools Alberta

Wanda Lloyd

Calgary Roman Catholic Separate School District No. 1 Alberta

Cheryl Makokis

Edmonton Public Schools Alberta

Martin Mazurek

Evergreen Catholic Separate Regional Division No. 2 Alberta

David Noonan

Elk Island Catholic School Regional Division No. 41 Alberta

Christine Prystenski

St. James-Assiniboia School Division Manitoba

Fariyal G. Samson

Calgary Board of Education Alberta

Robert Shkrobot

Edmonton Public Schools Alberta

Bill Slevinsky

St. Albert School District No. 6 Alberta

Edward Suderman

School District 45 (West Vancouver)
British Columbia

Rick Wunderlich

School District 83 (North Okanagan/Shuswap) British Columbia

Shannon Zanni

Regina School District 4 Saskatchewan

Student Resource Highlights

Easy-to-follow, 3-part Instructional Design

- Provides routine and structure to your grade 8 classroom
- Engages visual learners through exciting and colourful images, illustrations, and diagrams

1. Explore the Math

- **Explore the Math** allows students to construct their own learning through a hands-on or minds-on activity
- **Examples** and Worked Solutions demonstrate how to use the concept
- Show You Know! helps students check that they understand the skill covered in the

Example



Page 109

3. Check Your Understanding

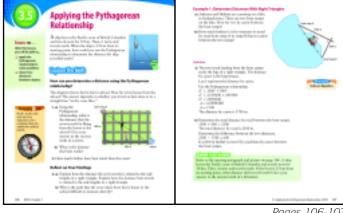
■ Check students' understanding of what they have learned

Apply

Provide applications of the skill in a different context

Extend

- May be a little more challenging
- May extend the concept horizontally



Pages 106-107

2. Key Ideas

- Summarize the main concepts of the lesson for students
- Use text, symbolic representation, and visuals, as appropriate

Communicate the Ideas

Provide opportunities for students to think about, talk about, and write about their learning



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Student Resource Highlights

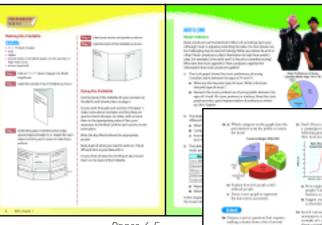
Support for All Students

■ Variety and choice enable you to strike the right balance for your students

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- Real-life, meaningful contexts to motivate and engage students
- Accessible, age-appropriate reading level

1. Variety



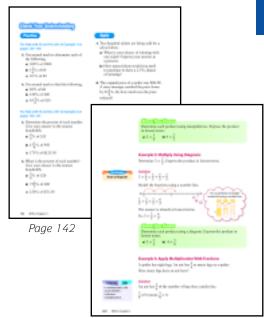
Pages 4-5

■ **Math Links** pose a Chapter Problem that connects math to the students' world

- Throughout the chapter, **Math Links** questions build towards completing the Chapter Problem that the **Wrap It Up!** provides
- Foldables serve as interactive graphic organizers, hands-on manipulatives, reading, and study skills strategies
 - Visuals and graphics that illustrate how to carry out explorations accompany instructions
 - **Literacy Links** provide students with strategies for how to read and understand mathematical language

2. Choice

- Explore the Math is designed to help students build their own understanding of a new concept. These provide a hands-on or minds-on activity
- Practise/Apply/Extend sections offer multiple questions from which to select
- The Examples and Worked solutions help students by providing:
 - **Notes** in thought or speech bubbles
 - Different methods of solving the same problem. One way may make more sense to one student than another
 - **Problem Solving** strategies



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Student Resource Highlights

A Variety of Assessment Strategies & Tools

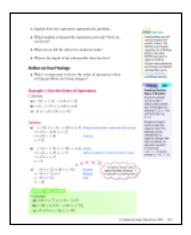
- Accommodates the broad range of students' abilities and learning styles
- Assessment opportunities are integrated into every lesson

1. Assessment for Learning (Formative)

- Communicate the Ideas questions provide opportunities to determine students' understanding of concepts through conversations and/or written work
- Students can use the **Practise** assignments in each section to check their understanding
- Chapter Reviews and Cumulative Chapter Reviews provide opportunities to assess knowledge/understanding applications, communications, mental math, and problem solving



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2. Assessment as Learning (Reflective)

- **Reflect on Your Findings** encourages students to clarify their thinking
- Show You Know questions enable students to check their understanding before moving forward
- The warm-up exercise, journaling questions, and Math Learning Log suggestions in The Teacher's Resource provide additional support in identifying and facilitating student learning

2. Assessment of Learning (Summative)

- Practice Tests are provided at the end of the chapters in the student resource, and Chapter Tests are provided in the Teacher's Resource
- Wrap It Ups! allow for performance-based assessment that can be used as an alternative to a chapter test
- A Task is included after each cumulative review.
 Exemplars and an alternative task are available on the Online Learning Centre. Rubric notes are in the Teacher's Resource



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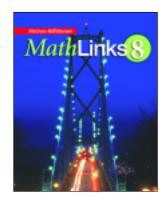
Program Components

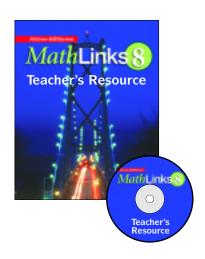
Student Resource 9780070973381

- Built on principles of effective practice and on research about how early adolescents learn
- Instructional model and assessment techniques accommodate the diverse needs of students
- Accessible, age-appropriate reading level



- NEW! A detailed fold-out Planning Chart at the beginning of each chapter. Provides teachers with a single location to find an outline of the chapter work and content, including the outcomes, prerequisite skills, materials/technology, blackline masters list, exercise guide, extra support information, and assessment suggestions
- **NEW! Literacy Link Boxes**: Emphasize suggestions for developing students' math literacy
- NEW! Math Link Introduction Blackline Master: Could be used for a diagnostic assessment or to activate student prior knowledge about the skills and processes that will be covered in the chapter
- NEW! Problems of the Week Blackline Masters:
 Provide additional support for many types of learners,
 as well as encourages students to think outside the
 box and experiment with a variety of approaches
- Teaching suggestions and Planning Notes for all lessons
- Strategies and Blackline Master support for accommodating different learning styles, special needs, English Language Learners, and at-risk students.
- Includes a CD-ROM with modifiable Blackline Masters, Rubric, Extra Practice, and Alternative Chapter Tests.
- The Teacher's Resource is also provided electronically in the Teacher Centre at www.mathlinks.ca







Program Components Computerized Assessment Bank

9780070977594



- Over 1000 additional questions in multiple formats including Multiple Choice, Matching, Completion, Short Answer, and Problems
- Answers are included
- Chapters correspond with the student text to support ease of use
- Uses teacher friendly ExamView® software

Solutions CD-ROM

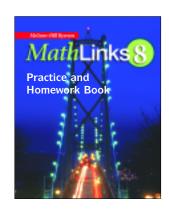
9780070977587



■ Fully worked solutions for all text exercises, as well as for questions in the chapter review, practice test, and cumulative review features

Practice and Homework Book

- An affordable, consumable workbook to provide extra support
- Chapters correspond with the student text to support ease of use



Adapted Program

- Retains the learning outcomes of the prescribed curriculum; however, adjustments to the instructional design are provided to **address the special needs of the struggling student**
- 3-ring binder format with approximately 500 Student worksheets provided in hard copy and on a CD-ROM, which will allow teachers to make modifications
- Includes a separate Teacher's Resource with teaching notes and additional Blackline Masters
- Authored by Carol Klass, author of MathPower Modified Program, this new Adapted Program is a resource to accompany MathLinks, organized to parallel the MathLinks lessons.
- One program per grade 7, 8, and 9

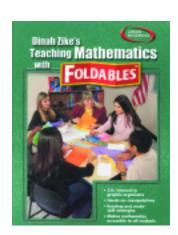
Program Components

Foldables TM

Dinah Zike's Teaching Mathematics with Foldables

007830413X

- Offers guidelines for using 3D, student-made interactive graphic organizers in your mathematics classroom
- Outlines how reading, writing, and thinking skills can be integrated into the curriculum using Foldables™



Online Learning Centre www.mathlinks.ca



Student Centre

- Study Tips for Students
- Game Web Links
- Math Games related to the chapter content
- Project ideas
- General Relevant Web Links
- Study Quizzes
- Interactive Crossword Puzzles
- Student Text Glossary
- Hands-on Activities
- Applets

Teacher Centre

- *Math*Links 8 Time Frames
- List of Materials Needed to teach MathLinks 8
- Web Links from *Math*Links 8 Teacher's Resource
- Combined Grades Plan
- Any needed Blackline Masters for the games in MathLinks 8
- Student Resource Answers and Practice and Homework Book Answers
- Warm-up Blackline Masters
- Get Ready Blackline Masters
- Game Web Links
- General Relevant Web Links
- Study Quizzes
- Interactive Crossword Puzzles
- Student Text Glossarv
- Alternative Year End Tests
- Rubrics and Student Exemplars
- Alternative Tasks and Challenges
- Hands-on Activities
- Applets
- Curriculum Correlation
- **Professional Development Services** including: video clips, Ask an Author, Conference and Workshop Schedule, and much more!

Dedicated to ...

...Students

*Math*Links 7-9: Dedicated to Meeting the Diverse Needs of Grades 7-9 Students by:

- Consistent, easy-to-follow, 3-part lesson design
- Accessible, age-appropriate reading with real-life contexts to motivate and engage students
- Mathematics literacy support through Literacy Link boxes and listing Key Words on the Chapter Opener, bolding and highlighting them when first used in the text, and defining them in the margin
- **Excellent visuals** and **multiple representations of concepts** and instructions
- Multiple worked examples and referenced examples within the Check Your Understanding
- Extend questions and extra difficult questions in the Computerized Assessment Bank provide additional challenges for gifted learners
- Practice and Homework Book to provide extra support
- An Adapted Program to support struggling and at-risk learners



*Math*Links 7-9: Dedicated to Meeting the Diverse Needs of Grades 7-9 Teachers by:

- A detailed fold-out Planning Chart at the beginning of each chapter in the Teacher's Resource
- **Strategies and Blackline Master support** for accommodating different learning styles, special needs, English Language Learners, and at-risk students.
- **CD-ROM** with modifiable Blackline Masters, Rubrics, Extra Practice, and Alternate Chapter Tests, as well as PDFs of the entire Teacher's Resource
- Web site (www.mathlinks.ca) providing Blackline Masters, web links, quizzes, tests, rubrics and student exemplars, as well as an opportunity to Ask an Author questions pertaining to the program
- **Inservice and workshops** to support implementation of the *Math*Links program

Curriculum Overview

Grade 8 Mathematics Curriculum Changes

WNCP 1995 ——	WNCP 2006 —	
Grade 8	Grade 8	
Number Concepts	Numbers	
Patterns and Relations	Patterns and Relations	
Shape and Space	Shape and Space	
Statistics and Probability	Statistics and Probability	

Deleted Topics

- Addition & subtraction of fractions (moved to Grade 7)
- Exponents (moved to Grade 9)
- Rational numbers and rational number operations (moved to Grade 9)
- Generalize patterns using expressions and equations (moved to Grade 9)
- Interpolation & extrapolation (moved to Grade 9)
- Create and solve first degree equations
- Surface area of 3-D composite figures (moved to Grade 9)
- Volume of 3-D composite figures
- Area of 2-D composite shapes
- Properties of quadrilaterals (sides & angles moved to Grade 6)
- Colouring problems
- Enlargements and reductions (moved to Grade 9)
- Network problems
- Scale diagrams (moved to Grade 9)
- Data collection methods (moved to Grade 9)
- Formulating questions (moved to Grade 9)
- Measures of central tendency (moved to Grade 7)
- Measures of variability
- Outliers and their effects on measures of central tendency (moved to Grade 7)
- Computer or other simulation methods
- Predict population characteristics from sample data
- Theoretical probability calculations (single events moved to Grades 6 & 7)

New Topics

- Surface area of triangular prisms
- Sketch 3-D solids with & without grids (moved from Grade 6)
- Build 3-D objects from nets (right rectangular prisms moved from Grade 6)
- Tessellations (moved from Grade 5)
- Views, top, front, side (moved from Grade 9)

Overall change from 1995 to 2006: 66%



Please feel free to detach the chart on the opposite page to use as a reference tool when reviewing *Math*Links 8.



Here are just some of the Schools/Boards that have adopted MathLinks 7



- Dea/Netsilik School, NU
- General Wolfe Elem. School, SD 39, BC
- Holy Cross Elem. School, BC
- John A. Hutton Elem. School, SD 51, BC
- Laurie Middle School, SD 5, BC
- Lord Kelvin Elementary School, New Westminster, BC
- Mulgrave School, West Vancouver, BC
- St. Patrick's Catholic School, Victoria, BC
- Assumption Jr/Sr High School, Lakeland RCSSD, AB
- Caledonia Park School, Black Gold Regional Division, AB
- Crestwood School, Edmonton Public, AB
- Crossing Park School, Calgary, AB
- Dr. Gordon Higgins Jr. High, Calgary, AB
- Ernest Morrow Jr. High, Calgary, AB
- Foothills School Division, AB
- Gerard Redmond, Evergreen CSRD, AB
- Heritage Heights, AB
- High Prairie School District, AB Board-wide
- Hillside Jr/Sr High, Northern Gateway Regional Division, AB
- Holy Redeemer Jr/Sr High School, Living Waters CRD, AB
- Okotoks Jr. High, AB/
- Percy Baxter School, Northern Gateway Regional Division, AB
- Queen Elizabeth Jr. Sr. High, Calgary, AB
- Red Deer Public Schools, AB Board-wide
- Riverview Middle School, Black Gold Regional Division, AB
- St. Rose School, Edmonton Catholic, AB
- Terry Fox Jr. High, Calgary, AB
- Vernon Barford School, Edmonton Public, AB
- Victoria School, Edmonton Public, AB
- Westlawn School, Edmonton Public, AB
- Woodhaven Junior High, Parkland School District, AB
- Christ the Teacher RCSSD, SK
- Delisle Composit School, Prarie Spirit, SK
- General Wolfe School, Winnipeg 1, MB
- H.S Paul School, Louis Riel School District, MB
- MacKenzie Middle School, Mountain View School District, MB
- Oscar Blackburn School, Frontier School District, MB
- St. John's Ravenscourt, Private, Winnipeg, MB

Sales Representatives

Western Regional Sales Manager:

Russ Breakey

(604) 855-3445

Toll Free 1-888-793-7706 ext 4070

Fax (604) 855-5996

russb@mcgrawhill.ca

British Columbia Sales Rep:

Maria Boublil

(604) 944-8040

Toll Free 1-888-793-7706 ext 4014

Fax (604) 944-8068

mariab@mcgrawhill.ca

Yukon, and BC School Districts: Bulkley Valley SD. Chilcotin SD. Coquitlam SD. Cowichan Valley SD. Francophone Education Authority, Gold Trail SD. Victoria SD. Kamloops Thompson SD. Langley SD. Ridge Pitt Meadows SD, Nechako Lakes SD, New Caribo

British Columbia Sales Rep:

(604) 986-2977

Toll Free 1-888-793-7706 ext 4072

Fax (604) 986-5977

erinp@mcgrawhill.ca

ngan Similkameen SD, Okanagan Similkameen SD, Okanagan Skaha SD, Peace North SD, Peace River SD, Prince Rupert SD, Qualicu Irrey SD, Vancouver Island North SD, Vancouver Island

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