

Information Books

Addison-Wesley mathematics

For descriptions see individual titles:
Mathematics 10 [42362]

* Algebraic thinking : grades 5 to 9

41790 BK

T 248 p. 2020 Carole Fullerton
by Carole Fullerton.

"The resource focuses on the two important strands of algebraic thinking: patterns and relations and solving equations. Lessons include open-ended prompts, direct instruction and age-appropriate manipulatives use to promote the big ideas in algebraic thinking. Content includes: increasing and decreasing patterns, generalizing from a T-table, describing and graphing linear relations in all 4 quadrants, explorations of slope (positive, negative, whole number and fractional) as well as y-intercept and the general form of a line, interpolation and extrapolation, operations on integers, solving equations, monomial and binomial multiplication using the distributive property, converting word problems to algebraic equations and more!" -publisher's website.

Mathematics—Study and teaching;
Algebra—Study and teaching;
Arithmetic—Study and teaching;
Algebra—Problems, exercises, etc

Building thinking classrooms in mathematics, grades K-12 : 14 teaching practices for enhancing learning

39998 BK

Peter Liljedahl.

"Building Thinking Classrooms offers invaluable guidance for educators to effectively implement in their classrooms. Dr. Peter Liljedahl has provided comprehensive and meaningful tasks, accompanying detailed research and explanations, for creating the optimal classroom environment - a thinking classroom"—Provided by publisher.

Classroom management;
Mathematics—Study and teaching;
Teaching

Children's mathematics : cognitively guided instruction

38939 BK

T

Thomas P. Carpenter, Elizabeth Fennema, Megan Loef Franke, Linda Levi, Susan B. Empson.

"... provides ... insights about cognitively guided instruction based on the author's research and experience in CGI classrooms .."—Back cover.

Mathematics—Study and teaching;
Fennema, Elizabeth,—author;
Franke, Megan Loef,—author

* Choral counting & counting collections : transforming the preK-5 math classroom

42357 BK

T 210 p. 2018 Stenhouse
Publishers

Meghan L. Franke, Elham Kazemi,
and Angela Chan Turrou.

"A professional development book aimed at PreK-5 teachers, math supervisors, and administrators to help them understand and implement two classroom counting activities; the activities' goals are to deepen students' number sense, increase their flexibility with number, and bring joy into the doing of mathematics"—Provided by publisher.

Mathematics—Study and teaching;
Communication—Study and
teaching; Mathematical recreations;
Counting; Turrou, Angela
Chan,—author; Kazemi, Elham,—
1970—author; Math; Mathematics;
Numeracy

* Color it on the hundred chart

42499 BK

T 87 p. 1993 Marcy Cook Math
Marcy Cook.

"Designed to be used by primary students in a mathematics program. Contains 80 activities."—OCLC.

Mathematics—Study and teaching;
Mathematical recreations;
Mathematics—Problems, exercises,
etc; Mathematical recreations—
Problems, exercises, etc

Corwin mathematics

For descriptions see individual titles:

Mathematics tasks for the thinking
classroom. Grades K-5 [42440]

Modifying your thinking classroom for
different settings : a supplement to
Building thinking classrooms in
mathematics [42399]

* Cuisenaire Rods rock! : exploring multiplication and proportionality in grades 4-7

42348 BK

IT 74 p. 2015 Carole Fullerton
Carole Fullerton.

Provides lessons and exercises for
using Cuisenaire Rods to explore
measurement, numbers and
operations, multiplicative thinking,
fractional thinking, as well as
connecting fractions and division.

Mathematics—Study and teaching;
Mathematics—Problems, exercises,
etc; Manipulatives—Problems,
exercises, etc

* Daily routines to jump-start math class : engage students, improve number sense, and practice reasoning. Middle school

42066 BK

T 145 p. 2019 Corwin Mathematics
John J. SanGiovanni and Eric Milou.

"Daily math routines for middle school teachers to engage students, improve number sense, and practice reasoning within the first 5-10 minutes of class"—Provided by publisher.

Mathematics—Study and teaching;
Mathematics—Problems, exercises,
etc; Milou, Eric,—author

* Daily routines to jump-start math class : engage students, improve number sense, and practice reasoning. High school

42067 BK

T 98 p. 2019 Corwin Mathematics
Eric Milou, John J. SanGiovanni.

"Daily math routines for [high] school teachers to engage students, improve number sense, and practice reasoning within the first 5-10 minutes of class"—Provided by publisher.

Mathematics—Study and teaching;
Mathematics—Problems, exercises,
etc; SanGiovanni, John,—author

* Do they really understand : how we can make sure students understand the math we teach : K-8

42400 BK

PJ 171 p. 2022 Rubicon, a Savvas
Company
Marian Small.

"Do they really understand? How can we make sure students understand the math we teach is a...resource for elementary math educators from...mathematics educator, author, and professional learning consultant Marian Small. This resource presents strategies that allow teachers to frame question to assess whether students truly understand the concepts they are learning."—Back cover.

Mathematics—Study and teaching;
Numeracy; Math; Mathematics

* Fair shares : teaching division in grades 4-7

42394 BK

PIT 90 p. 2013 Wordpress?
by Carole Fullerton.

Through stories, models, pictures and words, students are introduced to the idea of division as sharing and division as grouping. Lessons include opportunities for talk, for exploration and for practice in the form of games and engaging tasks across the grades. The lesson sequences are designed to address division of whole numbers and decimal numbers, to make meaningful connections to fractions and decimals in context and to support students in seeing patterns in quotients. Lessons map out how to use manipulatives to model division

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situations, and literature connections to introduce great division contexts.

Mathematics—Study and teaching; Arithmetic—Study and teaching; Division—Study and teaching; Division—Problems, exercises, etc; Math; Numeracy; Mathematics

* **Figuring out fluency : addition & subtraction with fractions and decimals, grades 4-8 : a classroom companion**

41701 BK

T 210 p. 2022 Corwin, a Sage Company

Jennifer M. Bay-Williams, John J. SanGiovanni, Sherri Martinie, Jennifer Suh.

"A classroom companion to the anchor book Fluency Figured Out, this book offers a menu of instruction-ready fluency support tools, instructional routines, activities, and games on the topic of addition and subtraction of fractions and decimals. It walks teachers through numeracy and thinking strategies they can explicitly teach students to help students reason and operate on fractions and decimals with real fluency"—

Mathematics—Study and teaching; Teaching—Aids and devices; Mathematics—Problems, exercises, etc; Arithmetic—Study and teaching; Teachers' guides; SanGiovanni, John,—author; Martinie, Sherri L.—author; Suh, Jennifer M.,—1971—author

* **Figuring out fluency : addition & subtraction with whole numbers, grades K-8 : a classroom companion**

41703 BK

T 166 p. 2022 Corwin

John J. SanGiovanni, Jennifer M. Bay-Williams, Rosalba Serrano.

". . . takes the significant strategies for fluency and offers a menu of instruction-ready fluency support tools, instructional routines, worked examples, activities, games, and centers for each strategy to help students build fluency in whole number addition and subtraction. The final chapters focus on assessing for fluency in whole number addition and subtraction. Throughout, the book provides ideas for communication with families to help their child with adding and subtracting whole numbers"—Provided by publisher.

Mathematics—Study and teaching; Teaching—Aids and devices; Mathematics—Problems, exercises, etc; Arithmetic—Study and teaching; Teachers' guides; Bay-Williams, Jennifer M,—author; Serrano, Rosalba,—author

* **Figuring out fluency in mathematics teaching and learning, grades K-8 : moving beyond basic facts and memorization**

41700 BK

T 227 p. 2021 Corwin

Jennifer M. Bay-Williams and John J. SanGiovanni.

"This book lays out the what, why, and how of fluency so that we can get to a point in our classrooms where there is no more fake fluency, but rather real authentic fluency. It argues that fluency is a matter of equity, identity, agency, and access for all learners. It offers concrete fluency actions that encourage efficiency, flexibility, and accuracy, and offers the "Seven Significant Strategies" to teach students explicitly as they work toward procedural fluency"—

Mathematics—Study and teaching; Mathematics—Problems, exercises, etc; Teachers' guides; SanGiovanni, John,—author

* **Figuring out fluency : multiplication & division with fractions and decimals, grades 4-8 : a classroom companion**

41704 BK

T 194 p. 2022 Corwin, a Sage Company

Jennifer M. Bay-Williams, John J. SanGiovanni, Sherri Martinie, Jennifer Suh.

"Fluency in mathematics is more than adeptly using basic facts or implementing algorithms. It is not about speed or recall. Real fluency is about choosing strategies that are efficient, flexible, lead to accurate solutions, and are appropriate for the given situation. Developing fluency is also a matter of equity and access for all learners. The landmark book Figuring Out Fluency in Mathematics Teaching and Learning offered educators the inspiration to develop a deeper understanding of procedural fluency, along with a plethora of pragmatic tools for shifting classrooms toward a fluency approach. Now, teachers have the chance to apply that inspiration through explicit instruction and practice every day with the classroom companion Figuring Out Fluency: Multiplication and Division with Fractions and Decimals. With this book, teachers can:-Dive deeper into the Significant Strategies for fluency explained in the anchor book Learn how these strategies grow from and relate to the basic fact strategies children learn -Access over 100 strategy-aligned and classroom-ready activities for fluency instruction and practice in multiplying and dividing fractions and decimals, including worked examples, routines, games, and centers -Find activities for assessing all components of multiplication and division fluency for fractions and decimals, plus support for engaging families -Download all of

the needed support tools, game boards, and other resources from the companion website for immediate implementation." -back cover.1

Arithmetic—Study and teaching; Teaching—Aids and devices; Teachers' guides; Suh, Jennifer M.,—1971—author; Mathematics—Problems, exercises, etc; SanGiovanni, John,—author; Mathematics—Study and teaching; Martinie, Sherri L.,—author

* **Figuring out fluency : multiplication & division with whole numbers, grades K-8 : a classroom companion**

41702 BK

T 194 p. 2022 Corwin

John J. SanGiovanni, Jennifer M. Bay-Williams, Rosalba Serrano.

"A classroom companion to the anchor book Fluency Figured Out, this book offers a menu of instruction-ready fluency support tools, instructional routines, activities, and games on the topic of whole number multiplication and division. It walks teachers through numeracy and thinking strategies they can explicitly teach students to help them reason and operate on whole numbers with real fluency. The final chapters focus on assessing for fluency in whole number multiplication and division, and engaging families through letters, talking points, and ideas for families to help their child with multiplying and dividing whole numbers"—Provided by publisher.

Mathematics—Study and teaching; Teaching—Aids and devices; Mathematics—Problems, exercises, etc; Arithmetic—Study and teaching; Teachers' guides; Bay-Williams, Jennifer M,—author; Serrano, Rosalba,—author

* **Financial literacy. 9, Student worktext**

42098 BK

J 104 p. 2018 Pearson Canada

Jason Elder, Amanda Trenholm, Patrick Erickson.

"Financial Literacy 9 introduces you to some basic financial concepts that you will face in the future, through a series of real-life projects. You will complete Tasks, such as budgeting, choosing a job, and determining savings goals. As you complete the Tasks, you will be directed to digital simulations to generate your finances for given months and to reflect on the financial decisions you made." -OCLC.

Personal finance—Study and teaching; Saving and investment—Study and teaching; Trenholm, Amanda,—author; Erickson, Patrick,—author

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- * **Financial literacy. 9, Teacher resource**
42099 BK
T 83 p. 2018 Pearson Canada
Jason Elder, Amanda Trenholm,
Patrick Erickson.
"This Financial Literacy Unit introduces students to some of the basic financial concepts and obligations that they will face in the near future, and the distant future. You can choose from a variety of options and adjust the depth to which the material is covered. This unit can be tailored to individual classroom needs and teaching styles by adding or removing components at your discretion. There are two scenarios to choose from, both of which cover the Financial Literacy curriculum for Grade 9. -OCLC.
Personal finance—Study and teaching; Saving and investment—Study and teaching; Trenholm, Amanda,—author; Erickson, Patrick,—author

- * **Games for early number sense : a yearlong resource**
41604 BK
T 78 p. 2007 Heinemann
Catherine Twomey Fosnot, Antonia Cameron.
"Contexts for Learning Mathematics" series is designed to support a conceptual understanding of essential mathematical ideas, strategies and models. Each unit provides a two-week sequence of investigation, mini-lessons, games, and other contexts for learning. The series' 18 classroom-tested units are organized into grade-appropriate levels." -OCLC.
Mathematics—Study and teaching; Teaching—Aids and devices; Educational games; Subtraction—Study and teaching; Addition—Study and teaching; Cameron, Antonia,—author

- * **Good questions : lessons and tasks for building number sense in kindergarten and grade 1**
42133 BK
P 163 p. 2022 Carole Fullerton by Carole Fullerton.
"Lessons feature sorting and patterning, shape and measurement and number sense (subitizing, counting, estimating and the operations)." -Author's website.
Mathematics—Study and teaching; Mathematics—Problems, exercises, etc.; Mathematics

Great mathemachicken

For descriptions see individual titles:
Hide and go beak [42137]

- * **Hide and go beak**
42137 BK
PI 75 p. 2024 Pixel+Ink
Nancy Krulik ; illustrated by Charlie Alder.
Great mathemachicken Series - "A chicken hops a ride to school to see what the humans do there all day and unlocks the superpowers of math and science, which she uses to save the coop"—Provided by publisher.
School stories; Chickens—Fiction; Mathematics—Fiction; Alder, Charlie,—illustrator

- * **iWrite Math : foundations of mathematics 11**
42071 BK
S 374 p. 2019 Absolute Value Publications
[Alan Appleby and Greg Ranieri].
"There are ten curricular units. Each curricular unit is subdivided into individual lessons. The last lesson in each unit is a practice test containing 15 multiple choice questions, 5 numeric response questions, and 1 extended response question. Most lessons can be covered in one hour (plus homework time), but some may require more time to complete." -OCLC.
Mathematics—Study and teaching; Mathematics—Problems, exercises, etc.; Ranieri, Greg,—author

- * **iWrite math : foundations of mathematics 12**
42078 BK
P 460 p. 2020 Absolute Value Publications
[Alan Appleby and Greg Ranieri].
The book contains nine curricular units subdivided into individual lessons. With the exception of "analyzing Puzzles and Games", "Fractals", and "Financial Planning", the last lesson in each unit is a practice test containing 15 multiple choice questions, 5 numeric response questions, and an extended response question. The unit "Analyzing Puzzles and Games" is subdivided into four parts integrated throughout the book.
Mathematics—Study and teaching; Mathematics—Problems, exercises, etc.; Ranieri, Greg,—author

- * **iWrite math : foundations of mathematics and pre-calculus 10 book**
42074 BK
JS 564 p. 2018 Absolute Value Publications
[Alan Appleby, Greg Ranieri].
The iWrite Math Foundations of Mathematics and Pre-Calculus 10 book British Columbia Edition is a complete resource for the British Columbia Foundations of Mathematics and Per-Calculus Grade 10 curriculum. Each curricular unit is subdivided into individual lessons. The last lesson in each unit is a practice test containing 15 multiple choice questions, 5 numeric response

questions, and 1 extended response questions.

Calculus—Study and teaching—Textbooks; Ranieri, Greg,—author; Calculus—Problems, exercises, etc.; Mathematics

- * **iWrite math : pre-calculus mathematics 11 book**
42076 BK
S 520 p. 2019 Absolute Value Publications
[Alan Appleby, Greg Ranieri].
The iWrite Math Pre-Calculus Mathematics 11 book British Columbia Edition is a complete resource for the British Columbia Pre-Calculus Mathematics Grade 11 curriculum. Each curricular unit is subdivided into individual lessons. The last lesson in each unit is a practice test containing 15 multiple choice questions, 5 numeric response questions, and 1 extended response question.
Calculus—Study and teaching—Textbooks; Ranieri, Greg,—author; Calculus—Problems, exercises, etc.; Mathematics

- * **iWrite math : pre-calculus mathematics 12 book**
42072 BK
S 670 p. 2020 Absolute Value Publications
[Alan Appleby, Greg Ranieri].
The iWrite Math Pre-Calculus Grade 12 book is a complete resource and a 100% fit for the British Columbia mathematics curriculum. There are 10 curricular units. Each curricular unit is subdivided into individual lessons. The last lesson in each unit is a practice test containing 15 multiple choice questions, 5 numeric response questions, and an extended response question.
Calculus—Study and teaching—Textbooks; Ranieri, Greg,—author; Calculus—Problems, exercises, etc.; Mathematics

Making number talks matter : developing mathematical practices and deepening understanding, grades 4-10

37586 BK

T

Cathy Humphreys & Ruth Parker ; foreword by Jo Boaler.
"Throughout the book, Cathy Humphreys and Ruth Parker offer practical ideas for using Number Talks to help students learn to reason numerically and build a solid foundation for the study of mathematics"—Back cover.
Mathematics—Study and teaching; Boaler, Jo,—1964—contributor; Parker, Ruth E.,—author

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* **Mastering the facts : addition**
41972 BK
T 59 p. 2020 Mind-Full Math Resources
by Carole Fullerton and the Campbell River Basic Facts Group.
Provides a series of strategies, lessons, and activities for helping students to understand and master addition. Also features games, visuals, and blackline masters.
Mathematics—Study and teaching; Arithmetic—Study and teaching; Addition—Study and teaching; Addition—Problems, exercises, etc

* **Mastering the facts : subtraction : lessons for making sense of subtraction for grades 1 to 3**
41967 BK
PT 98 p. 2012 Wordpress? Carole Fullerton.
Provides a series of seventeen lessons, intended to be taught in order, for introducing, reinforcing, and mastering the subtraction facts to 20. Also features games, visuals, and blackline masters. May be used after or at the same time as "Mastering the facts : addition".
Mathematics—Study and teaching; Arithmetic—Study and teaching; Subtraction—Study and teaching; Subtraction—Problems, exercises, etc

* **Math fact fluency : 60+ games and assessment tools to support learning and retention**
42352 BK
T 187 p. 2019 ASCD
Jennifer Bay-Williams and Gina Kling.
"Offers everything a teacher needs to teach, assess, and communicate with parents about basic math fact instruction. This is a... guide for any educator who needs to teach basic facts. The approach is grounded in research and will transform students' learning of basic facts and help them become more confident and successful at math." -OCLC.
Mathematics—Study and teaching; Educational games; Mathematics—Problems, exercises, etc; Kling, Gina,—author; Math; Mathematics; Numeracy

* **Math for all seasons**
42135 BK
PJ 2002 Scholastic Inc.
by Greg Tang ; illustrated by Harry Briggs.
Mind-stretching math riddles Series - Contains twelve riddles, each paired with a color illustration, that together pose math puzzles based on the seasons of the year. Includes an answer key. (513)
Counting; Arithmetic; Briggs, Harry,—ill; Riddles

Mathematical mindsets : unleashing students' potential through creative math, inspiring messages and innovative teaching
37590 BK
T
Jo Boaler ; foreword by Carol Dweck.
"[A] guide to the information, techniques, and activities that can be put in place to make math more enjoyable and achievable for all students"—Back cover.
Mathematics—Study and teaching; Middle schools; Secondary education; Dweck, Carol S.,—1946—contributor

* **Mathematics 10**
42362 BK
J 652 p. 1998 Addison-Wesley
Robert Alexander and Brendan Kelly.
Addison-Wesley mathematics Series - Student text uses an inquiry approach and incorporates graphing calculators and software use. The teacher's resource book includes comprehensive teaching notes, blackline masters, additional exercises, and a graphing handbook with reproducible activities. Group work, manipulatives, and technology are utilized where appropriate. (510.7)
Mathematics—Study and teaching; Kelly, Brendan,—1943-; Numeracy; Math; Mathematics

* **Mathematics tasks for the thinking classroom. Grades K-5**
42440 BK
T 419 p. 2024 Corwin
Peter Liljedahl, Maegan Giroux ; illustrations by Laura Wheeler.
Corwin mathematics Series - " It delves deeper into the implementation of the 14 practices from the BTC [Building Thinking Classrooms] framework by updating the practices with the newest research, and focusing on the practice through the lens of rich math tasks that address specific mathematical learning outcomes or standards. Across the 20 non-curricular tasks and 30 curricular tasks used as models, this book: Helps you choose tasks to fit your particular math standards, goals, and the competencies you want your students to build ; Walks you through all the steps and scripts to launch, facilitate, and consolidate each task ; Shares examples of possible student solutions along with hints you might offer to help their thinking along ; Offers tasks for consolidation, example notes to my future forgetful self, and mild, medium, and spicy check-your-understanding questions (CYUs) for every thin sliced sequences of curricular tasks ; Imparts reflections from the authors on each task. The book closes with specific guidance on how to find more tasks or craft your own non-curricular and curricular tasks, along with answers to educators frequently asked questions. It includes

access to a companion website that includes downloadables and a task template for creating your own tasks."—Amazon.
Classroom management; Mathematics—Study and teaching; Teaching; Giroux, Maegan,—author; Wheeler, Laura—(Illustrator),—illustrator; Math; Mathematics

* **MathLinks 10 : pathways to success**
42063 BK
J 528 p. 2019 Nelson Education
authors Bruce McAskill [and seven others].
"Aligns with changes to Ministry student reporting requirements and ease concerns about how to integrate the new BC core and curricular competencies through clear identification of curricular competency questions. Supports new and revised learning standards for Fraction Operations, Cubes and Cube Roots, Proportional Reasoning, Data Management and Financial Literacy. Provides opportunities for Inquiry-Based learning through open and active explorations, tasks, projects and rich problems. Competency-based focus as outlined in the new BC Building Student Success Curriculum document." -publisher's website.
Mathematics—Study and teaching; Johnson, Blaise,—author; McAskill, Bruce,—author; Watt, Wayne,—author; Balzarini, Eric,—author; Carlson, Scott,—author; Kennedy, Ron,—author; Melnyk, Terry,—author; Wardrop, Harold,—author

* **MathLinks 8 : pathways to success**
42064 BK
IJ 381 p. 2016 McGraw-Hill Ryerson
authors, Bruce McAskill ... [et al.].
"Aligns with changes to Ministry student reporting requirements and ease concerns about how to integrate the new BC core and curricular competencies through clear identification of curricular competency questions. Supports new and revised learning standards for Fraction Operations, Cubes and Cube Roots, Proportional Reasoning, Data Management and Financial Literacy. Provides opportunities for Inquiry-Based learning through open and active explorations, tasks, projects and rich problems. Competency-based focus as outlined in the new BC Building Student Success Curriculum document." -publisher's website.
Mathematics—Study and teaching; Johnson, Blaise,—author; McAskill, Bruce,—author; Balzarini, Eric,—author; DeMerchant, Richard,—author; Etienne, Steve,—author; Wunderlich, Rick,—author

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* **MathLinks 9 : pathways to success**

42062 BK

J 348 p. 2016 McGraw-Hill Ryerson authors Wayne Erdman [and three others].

"Aligns with changes to Ministry student reporting requirements and ease concerns about how to integrate the new BC core and curricular competencies through clear identification of curricular competency questions. Supports new and revised learning standards for Fraction Operations, Cubes and Cube Roots, Proportional Reasoning, Data Management and Financial Literacy. Provides opportunities for Inquiry-Based learning through open and active explorations, tasks, projects and rich problems. Competency-based focus as outlined in the new BC Building Student Success Curriculum document." -publisher's website.

Mathematics—Study and teaching; Erdman, Wayne,—author; Erienne, Steve,—author; Johnson, Blaise,—author; Zarski, Chris,—author

* **Mathworks 11 : Workbook. Part 1**

42068 BK

S 196 p. 2011 Pacific Education Press

[Katharine Borgen, PhD].

"...emphasizes mathematical skill-building through worked examples, practice problems, and differentiated learning strategies." —provided by publisher.

Mathematics—Study and teaching; Mathematics—Problems, exercises, etc

* **Mathworks 11 : Workbook. Part 2**

42070 BK

S 8 p. 2011 Pacific Education Press

[Katharine Borgen, PhD].

"...emphasizes mathematical skill-building through worked examples, practice problems, and differentiated learning strategies." —provided by publisher.

Mathematics—Study and teaching; Mathematics—Problems, exercises, etc

Mind-stretching math riddles

For descriptions see individual titles:
Math for all seasons [42135]

* **Modifying your thinking classroom for different settings : a supplement to Building thinking classrooms in mathematics**

42399 BK

T 107 p. 2022 Corwin Peter Liljedahl ; illustrations by Laura Wheeler.

Corwin mathematics Series - "... walks teachers through how to adapt the 14 practices [from 'Building Thinking Classrooms in Mathematics, Grades K-12'] for 12 distinct settings,

some of which came about as a result of the COVID-19 pandemic"—Back cover.

Classroom management; Teaching; Supplement to:—Liljedahl, Peter,—1967—Building thinking clas; Numeracy; Math; Mathematics

* **Multiplicative thinking : from skip counting to algebra ; grades 3-8**

41788 BK

T 159 p. 2015 Carole Fullerton by Carole Fullerton.

Provides a series of strategies, lessons, and activities for helping students to understand and master multiplication. Also features games, visuals, and blackline masters.

Mathematics—Study and teaching; Arithmetic—Study and teaching; Multiplication—Study and teaching; Multiplication—Problems, exercises, etc

Number sense routines

For descriptions see individual titles:

Number sense routines : building numerical literacy every day in grades K-3 [40554]

Number sense routines : building mathematical understanding every day in grades 3-5

40587 BK

T 137 p. 2018 Stenhouse Publishers

Jessica F. Shumway ; foreword by Lucy West.

"Number Sense Routines is about tapping into every child's innate number sense and providing daily experiences that are responsive to children's learning needs. Through familiar five-, ten-, or fifteen-minute warm-up routines,[this book] offers both beginner and veteran teachers easy and effective ways to build and solidify students' number sense foundations."—OCLC

West, Lucy,—author of foreword; Number concept—Study and teaching; Number concept—Problems, exercises, etc; Mathematics—Study and teaching; Numbers—Study and teaching

Number sense routines : building numerical literacy every day in grades K-3

40554 BK

T 178 p. 2011 Stenhouse

Jessica F. Shumway ; foreword by Lucy West.

Number sense routines Series -

Demonstrates that number sense can be taught to all students. Provides various five-, ten-, and fifteen-minute number sense activities, illustrates how the routines work, outlines how children's number sense develops, and offers strategies to implement responsive routines. Note copyright restrictions.

Number concept—Study and teaching; Number concept—Problems, exercises, etc; Mathematics—Study and teaching; Numbers—Study and teaching

* **Open middle math : problems that unlock student thinking, 6-12**

42397 BK

T 178 p. 2019 Stenhouse Publishers

Robert Kaplinsky.

Using the Open Middle math problems and strategies in this book, you'll learn how to do the following: Implement Open Middle math problems that are simultaneously accessible for both students who are struggling and those looking for more challenge. Select and create Open Middle math problems that will help you detect students' misconceptions and strengthen their conceptual understanding. Prepare for and facilitate powerful classroom conversations using Open Middle math problems. Access resources that will help you continue learning beyond this book. With these practical and intuitive strategies, extensive resources, and Robert's own stories about his journey learning to use Open Middle math problems successfully, you will be able to support, challenge, and motivate your students.—back cover.

Mathematics—Study and teaching; Word problems (Mathematics)—Study and teaching; Numeracy; Math; Mathematics

* **Place value in intermediate : building number sense, grades 3 to 5**

41785 BK

PIT 252 p. 2017 Carole Fullerton by Carole Fullerton.

Provides lessons and exercises designed to support deep learning of number sense. Focuses on representing, describing, comparing, and ordering numbers to 100 000, as well as explorations of decimal numbers to thousandths. Delves into measurement; the metric system; the operations of addition and subtraction of large numbers and decimals; and more.

Mathematics—Study and teaching; Arithmetic—Study and teaching; Decimal system—Study and teaching; Decimal system—Problems, exercises, etc

* **Place value in primary : developing number sense in kindergarten through grade 2**

41787 BK

PT 164 p. 2016 Carole Fullerton by Carole Fullerton.

Provides lessons and exercises designed to build number sense concurrent with place value understandings. Focuses on representing, describing, comparing,

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and ordering numbers to 100, as well as explorations of open sentences and number lines as a way of comparing and ordering quantities. Base 10-blocks, Cuisenaire rods and 10-frames are used along with counters and classroom materials to consolidate thinking.

Number concept—Study and teaching; Number concept—Problems, exercises, etc; Counting—Problems, exercises, etc; Numbers—Study and teaching; Numbers—Problems, exercises, etc; Numerals—Study and teaching; Numerals—Problems, exercises, etc

* **Pre-calculus 11**

42069 BK
S 598 p. 2011 McGraw-Hill Ryerson authors Bruce McAskill ... [et al.]. "Questions and problems, offering teachers and students choice and flexibility. Pre-Calculus 11 and 12 programs offer a variety of assessment opportunities and strategies to accommodate the diversity of students needs. Consumable workbook contains extra practice and exercises to build skills needed for university bound students." -publisher's website.

Johnson, Blaise,—author; McAskill, Bruce,—author; Watt, Wayne,—author; Balzarini, Eric,—author; Carlson, Scott,—author; Kennedy, Ron,—author; Wardrop, Harold,—author; Calculus—Study and teaching—Textbooks

Pre-calculus 11 : my worktext

34089 BK
S 712 p. 2011 Pearson Jack Hope ; [et al.] This book is a soft cover textbook with guided examples and instructional support.

Calculus; Mathematics—Study and teaching

* **Pre-calculus 12**

42065 BK
S 646 p. 2012 McGraw-Hill Ryerson authors Bruce McAskill ... [et al.]. "Questions and problems, offering teachers and students choice and flexibility. Pre-Calculus 11 and 12 programs offer a variety of assessment opportunities and strategies to accommodate the diversity of students needs. Consumable workbook contains extra practice and exercises to build skills needed for university bound students." -publisher's website.

Johnson, Blaise,—author; Zarski, Chris,—author; McAskill, Bruce,—author; Watt, Wayne,—author; Balzarini, Eric,—author; Kennedy, Ron,—author; Melnyk, Terry,—author; Calculus—Study and teaching—Textbooks

* **Pre-calculus 12 : my worktext**

42101 BK
S 808 p. 2020 Pearson Canada Garry Davis, Grant Gasser, Jack Hope, Linda Rajotte, Delcy Rolheiser, Alan Sarna, David Sufirin, and David Zimmer.

This book is a soft cover textbook with guided examples and instructional support.

Mathematics—Study and teaching; Mathematics—Problems, exercises, etc; Calculus—Study and teaching—Textbooks; Calculus—Problems, exercises, etc

* **Proportional reasoning, grades 4 to 8**

42396 BK
PIT 251 p. 2019 Carole Fullerton by Carole Fullerton.

This resource for teachers of Grades 4 to 8 presents open-ended lessons, meaningful practice, games, literature connections and a wealth of problem-solving contexts for supporting students to make sense of fractions, decimals, percentages, ratios and proportions. Designed for today's diverse classrooms, this resource offers a range of tasks to promote proportional thinking through intentional development of mathematical language and the use of key manipulatives. Colour tiles, Cuisenaire rods and tangrams are used to model and make connections within and between concepts. In the first section of the resource, students will explore three models -set, area and linear -for representing and describing, comparing and ordering fractions. Students will learn to convert between fractions, decimals and percent and to apply these skills to problem situations, including measurement, tax, discounts and data management. Next, students learn to add and subtract fractions, to solve proportions using a range of strategies (involving both mental math and the appropriate use of technology) and then finally to multiply and divide fractions. Assessment tools are threaded throughout the resource to allow teachers to keep track of student progress and to make instructional decisions.

Mathematics—Study and teaching; Arithmetic—Study and teaching; Numeracy; Math; Mathematics

* **Remarkable Cuisenaire Rods : mathematical tasks for primary classrooms**

42347 BK
PT 40 p. 2015 Carole Fullerton Carole Fullerton.

Provides lessons and exercises for using Cuisenaire Rods to explore measurement, numbers and operations, multiplicative thinking, and fractional thinking.

Mathematics—Study and teaching; Mathematics—Problems, exercises, etc; Numbers—Study and teaching; Manipulatives—Problems, exercises, etc; Numbers—Problems, exercises, etc

* **Rethinking fractions : 8 core concepts to support assessment and learning**

41535 BK
280 p. 2022 Pearson Canada Catherine D. Bruce ; Tara Flynn ; Shelley Yearley.

"This resource will help students to develop a deep understanding of unit fractions (the base of all fractions); and the eight core concepts (the keys to unlocking fractions understanding). For educators, this resource will help you to assess students understanding and possible misconceptions via the use of targeted, field-tested questions and recommended next steps that reveal student understanding; and respond to student needs (with precise and differentiated tasks and instruction)."—Publisher's website.

Mathematics—Study and teaching; Teaching—Aids and devices; Fractions—Study and teaching; Ratio and proportion—Study and teaching; Flynn, Tara,—author; Yearley, Shelley,—author

* **Sums & differences : teaching addition and subtraction in grades 2 & 3**

41786 BK
PT 195 p. 2014 Carole Fullerton? by Carole Fullerton.

Provides a series of lessons, intended to be taught in order, for introducing, reinforcing, and mastering addition and subtraction of double and triple-digit numbers. Also features teaching tips, games, visuals, and blackline masters.

Mathematics—Study and teaching; Arithmetic—Study and teaching; Subtraction—Study and teaching; Subtraction—Problems, exercises, etc; Addition—Study and teaching; Addition—Problems, exercises, etc

* **Sums & differences : teaching addition and subtraction in grades 1 & 2**

41789 BK
PT 143 p. 2013 Carole Fullerton by Carole Fullerton.

Provides a series of lessons, intended to be taught in order, for introducing, reinforcing, and mastering addition and subtraction of double and triple-digit numbers. Also features teaching tips, games, visuals, and blackline masters.

Mathematics—Study and teaching; Arithmetic—Study and teaching; Subtraction—Study and teaching; Subtraction—Problems, exercises, etc; Addition—Study and teaching; Addition—Problems, exercises, etc

Information Books

* **Théorie et problèmes pour les mathématiques 9**

42079 BK
391 p. 2009 Crescent Beach Publishing
R.J. Mickelson, P. Mickelson.
Écrit pour être utilisé comme ressource pédagogique principale. Contient une explication complète du sujet pour chaque section. Plus de 300 exemples de questions détaillés. Des centaines de problèmes pratiques avec des réponses et des solutions étape par étape si nécessaire. – fourni par l'éditeur.

Mathématiques–Étude et enseignement; Mathématiques–Problèmes et exercices

* **Theory and problems for foundations of mathematics 11**

42075 BK
S 372 p. 2009 Crescent Beach Publishing
R.J. Mickelson.
Written to be used as a primary teaching resource. Contains a comprehensive explanation of the subject for each section. Over 300 detailed example questions. Hundreds of practice problems with answers and step by step solutions where necessary. –Provided by publisher.

Mathematics–Study and teaching; Mathematics–Problems, exercises, etc

* **Theory and problems for foundations of mathematics and pre-calculus 10**

42073 BK
JS 369 p. 2009 Crescent Beach Publishing
R.J. Mickelson, P. Mickelson.
Written to be used as a primary teaching resource. Contains a comprehensive explanation of the subject for each section. Over 300 detailed example questions. Hundreds of practice problems with answers and step by step solutions where necessary. –Provided by publisher.

Mathematics–Study and teaching; Mathematics–Problems, exercises, etc; Mickelson, P.,–author

* **Theory and problems for mathematics 8**

42077 BK
IJ 391 p. 2009 Crescent Beach Publishing
R.J. Mickelson, P. Mickelson.
Written to be used as a primary teaching resource. Contains a comprehensive explanation of the subject for each section. 364 detailed example questions. Hundreds of practice problems with answers and step by step solutions where necessary. –Provided by publisher.

Mathematics–Study and teaching; Mathematics–Problems, exercises, etc; Mickelson, P.,–author

* **Theory and problems for mathematics 9**

42060 BK
IJ 415 p. 2016 Crescent Beach Pub
R.J. Mickelson, P. Mickelson.
The New Third Edition has been released to correspond with the 2016 B.C. curriculum changes. New Topics for the Third Edition include: Finance: Income (salary, commission, wages, piecework), Simple Interest, Compound Interest, Budget (developing a budget, building credit). Reasoning: Inductive reasoning for specific and n th terms, Deductive Reasoning, Puzzles and Games of strategy. Probability and Statistics: Population vs. Samples, Central Tendency, Misleading Graphs, Probability. All exercises come complete with answers. All word problems come with step by step solutions, including detailed illustrations when necessary.

Mathematics–Study and teaching; Mathematics–Problems, exercises, etc; Mickelson, P; Mathematics–Textbooks

* **Theory and problems for pre-calculus 11**

42080 BK
S 421 p. 2009 Crescent Beach Publishing
R.J. Mickelson, P. Mickelson.
Contains detailed example questions. Hundreds of practice problems with answers and step by step solutions where necessary.

Calculus–Study and teaching–Textbooks; Calculus–Problems, exercises, etc; Mickelson, P.,–author; Mathematics

* **Theory and problems for pre-calculus 12**

42081 BK
S 480 p. 2009 Crescent Beach Publishing
R.J. Mickelson.
"Written to be used as a primary teaching resource. Contains a comprehensive explanation of the subject for each section. Over 400 detailed example questions. Hundreds of practice problems with answers and step by step solutions and diagrams where necessary. Space is given for each practice question to complete the problem, and keep the work organized all in one place." –ebsbooks.com.

Calculus–Study and teaching–Textbooks; Calculus–Problems, exercises, etc; Mathematics

What to look for : understanding and developing student thinking in early numeracy

37585 BK
PT 215 p. 2015 Pearson Canada
Alex Lawson.
"Good instruction is integral to developing student thinking and learning and this resource provides a wide variety of easy-to-implement

classroom activities that build childrens number sense and early computation skills. This resource was written in response to teacher requests. They wanted better insight into childrens mathematical development. This is the resource that will help them know: What does this child think tell me about what he or she understands? ; Where does this child's mathematical thinking lie on a framework of primary numeracy development? ; What questions can I ask, or what activities can I do, to help this child move to the next phase?."–Publisher's website.

Early childhood education; Educational evaluation; Mathematics–Study and teaching; Thought and thinking–Study and teaching