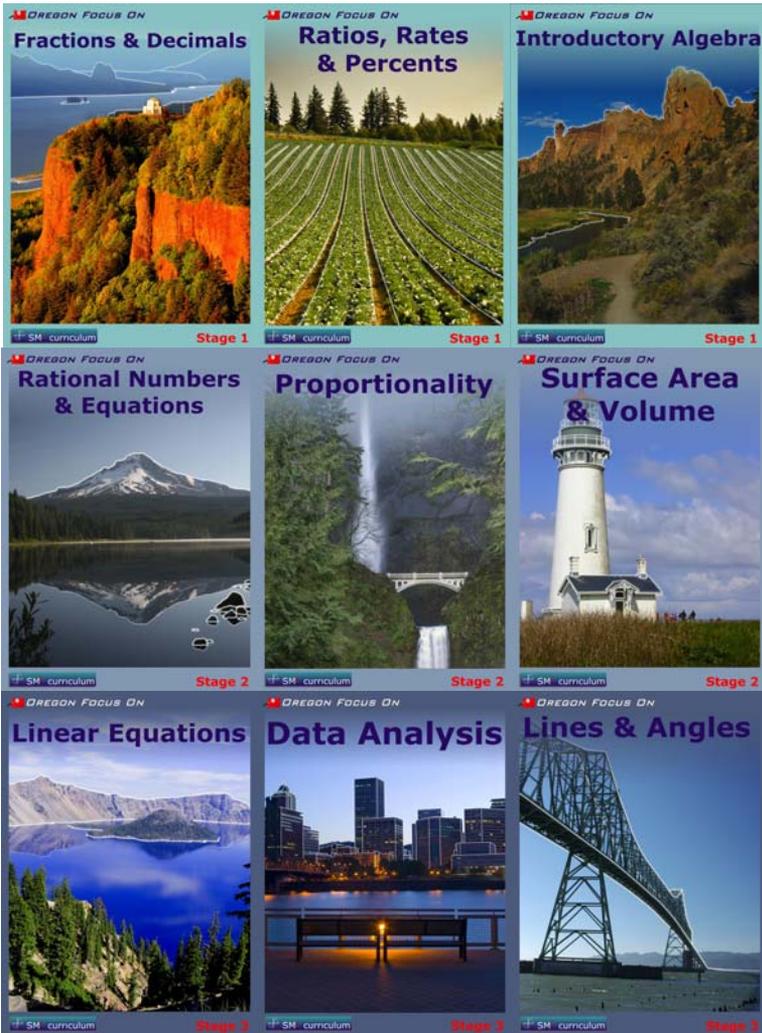


# Oregon Focus on Math ©2008

By SMC Curriculum

An Oregon-Specific Middle School Math Series for Grades 6-8



State Adopted as a Basal Curriculum in Oregon

 **SMC** curriculum  
improving math.

# About The Series

The Oregon Focus on Math<sup>©</sup> Series was written by six Oregon teachers. The goal of the series is to provide Oregon middle school teachers with curriculum that is directly aligned to the 2007 Oregon Core Standards. Most national publishers offer math textbooks to Oregon teachers that are written to national standards causing the texts to often exceed 700 pages in length. The Oregon Focus on Math<sup>©</sup> Series is unique in that it focuses solely on what students and teachers are held accountable for in Oregon. Each of the nine books in the series addresses one Core Standard while including Pre-requisite and Connection lessons.

The Oregon Department of Education provided 19 criteria for math instructional materials in grades 6-8. The Oregon Focus on Math<sup>©</sup> Series fulfilled the requirements for these criteria and is an adopted basal curriculum for the 2009-2015 contract period in Oregon.

ABOUT THE SERIES AUTHOR



Shannon McCaw is a classroom teacher and consultant. She has taught mathematics in the Newberg and Parkrose School Districts. She has been trained in Professional Learning Communities, Differentiated Instruction and Critical Friends. Shannon currently works with math teachers from over 40 districts around the State of Oregon. Her expertise lies in Oregon standards, curriculum alignment and assessment practices. Shannon has a Masters of Arts in Secondary Math Education from Colorado College.



CONTRIBUTING AUTHORS

**See sample blocks and alignment to the  
Oregon Core Standards at  
[www.oregonfocus.com](http://www.oregonfocus.com)**

# Oregon Focus on Math Series Highlights

## Oregon-Specific Content

The Oregon Focus on Math Series is written specifically for Oregon teachers and students. The lessons are focused on the Oregon Core Standards and include a variety of Oregon facts and people.

## Pre-Requisite and Connection Lessons

Each book emphasizes connections between prior learning, current concepts, and future mathematical concepts. Pre-requisite lessons precede those covering the Core Standards. Connection lessons and activities, which go deeper into the current content or extend to future mathematical concepts, occur throughout each text.

## Targets and Self-Assessments

Each lesson includes a learning target for students. Students use these targets to participate in self-assessments throughout units and prior to summative assessments.

**UNDERSTANDING INTEGERS** LESSON 8

Some integers and their opposites on a number line.

State	Lowest Low Temperature	Lowest	High
Alaska	$-80^{\circ}\text{F}$	Elmer's Peak, Long	Summit, Pt. Barrow
California	$-47^{\circ}\text{F}$	Sierra	Summit, Mt. Whitney
Illinois	$-49^{\circ}\text{F}$	Mount Park, Park	Summit, Mt. Lemmon
Washington	$-49^{\circ}\text{F}$	Whitcomb in Montana	Summit, Mt. Rainier

**T**he record low temperatures for five Western states are shown in the table above. The numbers used to represent the low temperatures are called negative numbers. Negative numbers are numbers less than 0. Positive numbers are any numbers greater than 0.

## Explores!

Explores! are used throughout the series to give students an opportunity to discover, investigate or practice the Core Standards in a variety of methods. Approximately half of the lessons include an Explore! activity. Many of these activities involve the use of manipulatives, such as the use of equation mats for equation solving or fraction tiles for fraction operations. Explores! provide contexts that promote student communication to both explain and justify their ideas, using appropriate terms and notation.

## Tic-Tac-Toe Boards

Each book includes three to four Tic-Tac-Toe Boards. Each Tic-Tac-Toe Board includes nine activities that extend or look at the content of the block in different ways. The Tic-Tac-Toe Boards include activities that make use of a variety of multiple intelligences and problem solving strategies. The activities described on the Tic-Tac-Toe Boards can be found throughout each block in yellow boxes.

**BLOCK 2 - SEQUENCES AND SLOPE**  
2017 - 2018 - 70%

<b>Basic Mixtures</b> Create a Big Book explaining how to find slope from tables, graphs, and related points. for page 41 for details	<b>Consumer Paths</b> Determine when two business expenses are equal. Then use your solution with related graphs. for page 43 for details	<b>Cost Rates</b> Make a unit price when given a rate and compare a mixture to other products. for page 70 for details
<b>Geometric Sequences</b> Examine recursive sequences involving repeated multiplication or division operations. for page 70 for details	<b>Discussion Topics</b> Find the rates of change and compare solutions with related graphs. for page 44 for details	<b>Written Explanations</b> Create a notebook to help another student through the process of writing an equation for a sequence of data. for page 70 for details
<b>Rate Annotations</b> Find the rates of change in real-world situations. Make applications problems. for page 44 for details	<b>Consumer's Heart</b> Write a billboard advertisement response. The price should be represented by a recursive equation and identify an equation. for page 70 for details	<b>Financial Exam</b> Make a decision about whether to buy things based on the rates. for page 49 for details



# Stage 1 – Sixth Grade

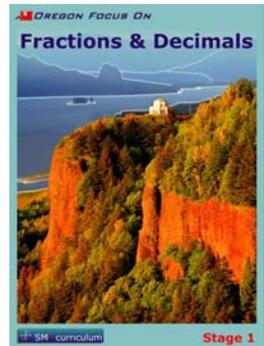
## Oregon Focus on Fractions & Decimals ©2008

reviews basic fraction and decimal concepts as well as adding and subtracting fractions and decimals (Core Standards 3.1, 4.1, 5.1). The remainder of the book focuses on Core Standard 6.1 which covers multiplying and dividing fractions and decimals. Concepts are taught through models, algorithms and problem-solving.

Student Edition

ISBN 978-1-935033-00-4

Price \$24.95



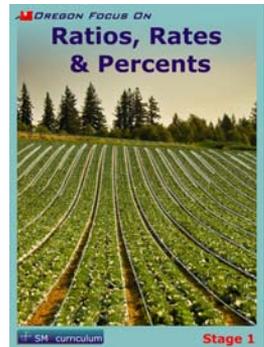
## Oregon Focus on Ratios, Rates & Percents ©2008

includes the content covered in Core Standard 6.2. The text begins with the connection between fractions and decimals. Students apply this knowledge throughout the text to situations involving rates, ratios and percents. They also apply these concepts to the geometry and probability content standards within the Core Standard.

Student Edition

ISBN 978-1-935033-01-1

Price \$24.95



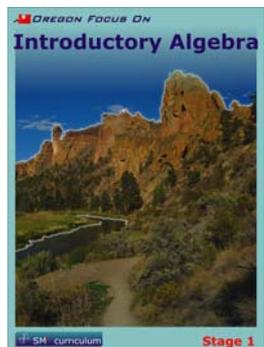
## Oregon Focus on Introductory Algebra ©2008

starts with the order of operations. Students are then introduced to variables and expressions. Students learn both hands-on and algorithmic methods for solving one-step equations. The text ends with generating rules and graphs for number patterns and geometric patterns. The material in this text covers the content in Core Standard 6.3.

Student Edition

ISBN 978-1-935033-02-8

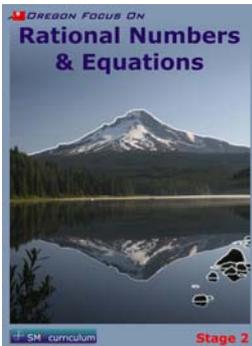
Price \$24.95



**Purchase the Stage 1 Set for \$59.95!**

ISBN 978-1-935033-03-5

# Stage 2 – Seventh Grade

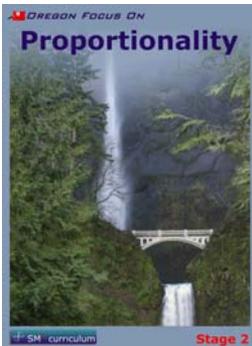


**Oregon Focus on Rational Numbers & Equations ©2008** reviews the concepts of variables and expressions (Core Standard 6.3) in the first block. The next two blocks focus on integers and extending the concept of negative numbers to all rational numbers. Students then learn how to solve multi-step equations using both hands-on and algorithmic methods. This text covers the content in Core Standard 7.1.

Student Edition

ISBN 978-1-935033-04-2

Price \$24.95

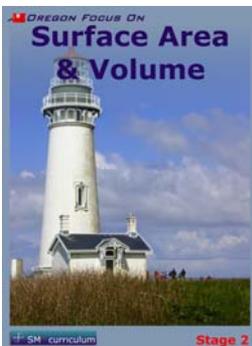


**Oregon Focus on Proportionality ©2008** covers the concepts in Core Standard 7.2. The text begins by reviewing ratios and rates (Core Standard 6.2). Students then apply this knowledge to mathematics topics that can be solved with proportions including percents, probability, similar figures and direct variation.

Student Edition

ISBN 978-1-935033-05-9

Price \$24.95



**Oregon Focus on Surface Area and Volume ©2008** begins with areas and perimeters of two-dimensional figures, including circles. This content is then applied to three-dimensional figures to find surface area and volume which is the focus of Core Standard 7.3. The text uses hands-on explorations to lead students to the formulaic methods for finding surface area and volume.

Student Edition

ISBN 978-1-935033-06-6

Price \$24.95

**Purchase the Stage 2 Set for \$59.95!**

ISBN 978-1-935033-07-3

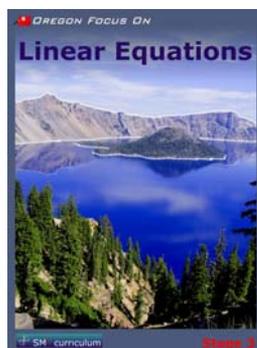
# Stage 3 – Eighth Grade

**Oregon Focus on Linear Equations ©2008** includes all the content standards in Core Standard 8.1. The text begins by reviewing equation-solving. Conceptual understanding of linear equations is built through recursive sequences. By the end of Block 3, students will be able to move between tables, graphs, formulas, recursive routines and words for all linear equations. The text ends with examining and solving systems of equations.

Student Edition

ISBN 978-1-935033-08-0

Price \$24.95

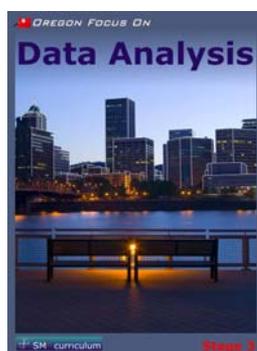


**Oregon Focus on Data Analysis©2008** focuses on the statistical concepts covered in Core Standard 8.2. Students review ratios, proportions and percents before exploring the measures of center. Students examine spread as well as the strengths and limitations of central tendencies. The text has students create and analyze both one-variable (categorical and numerical) and two-variable data displays and use results to predict.

Student Edition

ISBN 978-1-935033-09-7

Price \$24.95

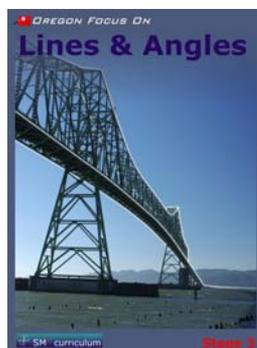


**Oregon Focus on Lines & Angles ©2008** begins with the basic geometry concepts of lines and angles. These concepts are extended to include the properties of parallel lines and transversals, angle sums in triangles and quadrilaterals as well as the Pythagorean Theorem. The material in this text covers the content in Core Standard 8.3.

Student Edition

ISBN 978-1-935033-10-3

Price \$24.95



**Purchase the Stage 3 Set for \$59.95!**

ISBN 978-1-935033-11-0

# Teacher's Editions

Each textbook has a corresponding Teacher's Edition. The Teacher's Edition includes the following:

- Warm-Up Problems
- Teacher Tips
- Explore! Tips and Solutions
- Extra Examples
- Focused Assignments and Starred Challenge Exercises
- Exercise and Tic-Tac-Toe Solutions
- Exit Problems
- Communication Prompts

**Oregon Focus on Fractions & Decimals Teacher's Edition ©2008**

ISBN 978-1-935033-24-0

Price \$29.95

**Oregon Focus on Ratios, Rates & Percents Teacher's Edition ©2008**

ISBN 978-1-935033-25-7

Price \$29.95

**Oregon Focus on Introductory Algebra Teacher's Edition ©2008**

ISBN 978-1-935033-26-4

Price \$29.95

**Oregon Focus on Rational Numbers & Equations Teacher's Edition ©2008**

ISBN 978-1-935033-27-1

Price \$29.95

**Oregon Focus on Proportionality Teacher's Edition ©2008**

ISBN 978-1-935033-28-8

Price \$29.95

**Oregon Focus on Surface Area & Volume Teacher's Edition ©2008**

ISBN 978-1-935033-29-5

Price \$29.95

**Oregon Focus on Linear Equations Teacher's Edition ©2008**

ISBN 978-1-935033-30-1

Price \$29.95

**Oregon Focus on Data Analysis Teacher's Edition ©2008**

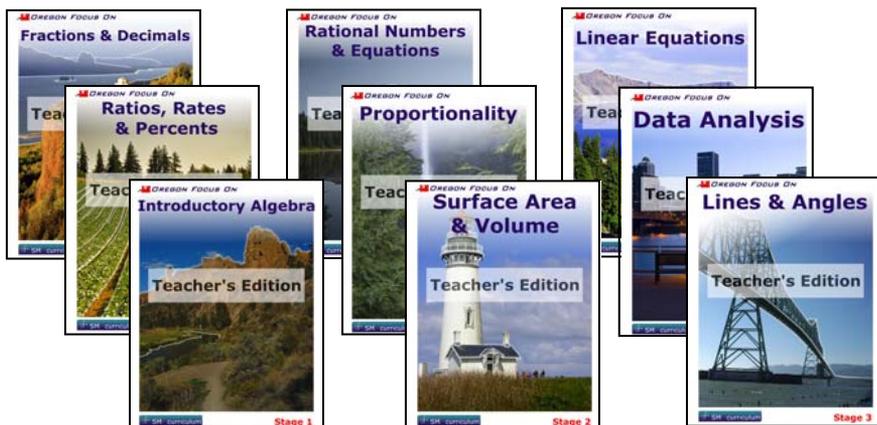
ISBN 978-1-935033-31-8

Price \$29.95

**Oregon Focus on Lines & Angles Teacher's Edition ©2008**

ISBN 978-1-935033-32-5

Price \$29.95



# Teacher Resources

Separate Teacher Resource Binders for each text provide the following supplemental materials:

- Supplemental Lesson Worksheets (English and Spanish)
- Supplemental Tiered Worksheets
- Multiple-Choice Block Reviews
- Block Assessments (English and Spanish)
- Tiered Block Assessments
- Exit Cards
- Self-Assessments
- Resource Templates
- Lesson Slide Shows (PowerPoint)

Each Teacher Resource Binder includes a CD with all files as both PDFs and Word documents. The Word documents may be modified by the user to create a variety of differentiated worksheets and assessments.

**Oregon Focus on Fractions & Decimals Teacher Resources ©2008**

ISBN 978-1-935033-33-2

Price \$49.95

**Oregon Focus on Ratios, Rates & Percents Teacher Resources ©2008**

ISBN 978-1-935033-34-9

Price \$49.95

**Oregon Focus on Introductory Algebra Teacher Resources ©2008**

ISBN 978-1-935033-35-6

Price \$49.95

**Oregon Focus on Rational Numbers & Equations Teacher Resources ©2008**

ISBN 978-1-935033-36-3

Price \$49.95

**Oregon Focus on Proportionality Teacher Resources ©2008**

ISBN 978-1-935033-37-0

Price \$49.95

**Oregon Focus on Surface Area & Volume Teacher Resources ©2008**

ISBN 978-1-935033-38-7

Price \$49.95

**Oregon Focus on Linear Equations Teacher Resources ©2008**

ISBN 978-1-935033-39-4

Price \$49.95

**Oregon Focus on Data Analysis Teacher Resources ©2008**

ISBN 978-1-935033-40-0

Price \$49.95

**Oregon Focus on Lines & Angles Teacher Resources ©2008**

ISBN 978-1-935033-41-7

Price \$49.95

# Other Resources for the Series

## Oregon Focus Manipulative Kit

ISBN 978-1-935033-42-4

Price \$429.95

The Oregon Focus Manipulative Kit contains each of the following:

- 30 Shatterproof Rulers
- 10 Tape Measures
- 30 Protractors
- 30 Compasses
- 4 Geometric Solid Student Kits
- 1 Geometric Solid Jumbo Teacher Kit
- 1 Base-Ten Block Classroom Kit
- 15 Sets of Fraction Tiles
- 1 Set of Overhead Fraction Tiles
- 15 Equation Mats
- 15 Sets of Integer Chips and Variable Cubes
- 30 Personal-Sized Dry Erase Boards
- 30 Dry Erase Markers
- 30 Dry Erase Erasers
- 1 Jar of 144 Dice

## Oregon Focus Core Standard Formative & Summative Assessment Package

ISBN 978-1-935033-43-1

Price \$79.95

6th Grade Assessment Summary Report  
Teacher: Max McCue

Standard	J.B. Robinson				
	# of Students	No. Students	Percentage	Standardized Assessment	Standardized Assessment
Number	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
Operations and Algebraic Thinking	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
Fractions, Decimals, and Percents	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%
	0-18	100%	100%	100%	100%

The Oregon Focus Assessment Package includes a diagnostic and summative assessment for each Core Standard. It includes a Data Analysis Program that provides reports for students and parents to show proficiency as well as a separate report for teachers to look at overall student growth and proficiency levels. The reports generated from these assessments are useful for planning future instruction, sharing instructional strategies in professional learning communities and watching for longitudinal growth in students.

# Preview and Order Information

Please contact SMC Curriculum using the contact information below to preview sample textbooks.

**SMC Curriculum**  
**815 5<sup>th</sup> Avenue**  
**Oregon City, OR 97045**

**Phone: 503.550.4298**  
**800.708.5259**  
**Fax: 866-689-8716**  
**Email: [mccaws@SMCCurriculum.com](mailto:mccaws@SMCCurriculum.com)**

The Oregon Focus on Math Series will be available for purchase beginning **January 2009**. All orders must be placed through Northwest Textbook Depository. For more information on the ordering process, please contact:

**Northwest Textbook Depository**  
**Website: [www.nwtd.com](http://www.nwtd.com)**  
**Phone: 503-906-1100**  
**800-676-6630**

To place an order, you will need the following:

- Account Number or Bill-To Address
- Ship-To Address
- PO Number, if required
- ISBN
- Quantity to be shipped
- Preferred Mode of Shipment

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