Core Mathematics

Adoption Guide Extended

For additional information (e.g. pricing, copyright, ISBN) and Idaho completed evaluations, please contact the curricular materials coordinator.

Materials in this guide are contracted from August 2016-December 31, 2021.

9-12 CORE MATHEMATICS

Big Ideas Learning

Big Ideas Math Algebra 1

- **Grades 9-12**
  - **Strengths**:
    - Clear communication and visible connections across clusters/concepts throughout text
  - **Weaknesses**:
    - Little explicit attention to comparing various strategies to develop ability to apply opportunistic strategies-leads to perhaps weaker conceptual understanding of procedures.
  - **Key Features:**
    - Maintaining Mathematical Proficiency
    - Mathematical Practices
    - Essential Questions
    - Communicate Your Answer
    - Core Vocabulary
    - Core Concepts
    - Monitoring Progress
    - Vocabulary and Core Concept Check
    - Monitoring Progress and Modeling with Mathematics
    - Error Analysis
    - How Do You See It?
    - Thought Provoking
    - Maintaining Mathematical Proficiency
    - What Did You Learn?
    - Standards Assessments
    - Laurie's Notes in the Teaching Edition

Big Ideas Math Algebra 2

- **Grades 9-12**
  - **Notes:**
    - Text is well organized, flows well.
    - Supports: differentiation ideas, ELL supports, Math Practices
    - Leads with vocabulary, tying lessons/chapters nicely together
    - Appropriate formatting (i.e. text size)

        - Well developed
        - Lots of guidance for teachers with Laurie's Notes
    - **Key Features:**
        - Maintaining Mathematical Proficiency
        - Mathematical Practices
        - Essential Questions
        - Communicate Your Answer
        - Core Vocabulary
        - Core Concepts
        - Monitoring Progress
        - Vocabulary and Core Concept Check
        - Monitoring Progress and Modeling with Mathematics
        - Error Analysis
        - How Do You See It?
        - Thought Provoking
        - Maintaining Mathematical Proficiency
        - What Did You Learn?
        - Standards Assessments
        - Laurie's Notes in the Teaching Edition

Carnegie Learning

Carnegie Learning Algebra 1

- **Grades 9-12**
    - Strengths:
        - Quality exercises
        - Covers Widely Applicable Prerequisites, standards, and mathematical practices
        - Requires the students to write about their thinking and discuss with other students
        - Extensive online resources
    - Weaknesses:
        - Lacks accommodations for English Language Learners and gifted students
        - Mathematical Practices are not clearly marked in the teacher or student texts
        - Paperback, would have to be replaced often or lots of copies would need to be made
        - Multiple books for the students and teachers
        - Not a good text to picture ratio
        - Bland and boring in appearance
        - There are no examples that are fully worked out so that a student who was absent from class could go back and try and learn the material on their own
        - It is worth noting, that in order to adopt Carnegie Learning in high school it would be necessary to adopt the same curriculum at least in grades 6-8.
    - **Key Features:** The Carnegie Learning Algebra I 3rd Edition text was developed to support students as they build their mathematical understanding and make connections both from previous years and within the different mathematical clusters outlined in the Common Core State Standards for Mathematics, as specified in Appendix A Pathways. The materials were strongly influenced by research into how students learn mathematics and how to best motivate them to succeed academically.

      The instructional design of the Carnegie Learning Algebra I 3rd Edition text includes:

        - A student-centered approach that focuses on students thinking about and discussing mathematics as active participants in their learning.

    - Tasks that make use of models—real-world situations, graphs, diagrams, and worked examples, among others—to help students see and make connections between different topics.
    - Questions written to promote analysis, to develop higher-order-thinking skills, and to encourage students to seek mathematical relationships.
- The instructional materials provide investigations, applications, and practice with on-course-level problems. The consumable *Student Text* is the primary classroom resource and provides a record of the students' thinking, reasoning, and problem solving. The Lessons, each comprised of several Problems, were written to engage and motivate students, develop conceptual understanding and procedural fluency, and provide opportunities for students to assess their own understanding. The goal of the instructional materials is for students to view mathematics as a set of related topics rather than as a set of discrete topics. Students should understand why algorithms work, not just memorize procedures.

Each Lesson within the Student Text:

- Demonstrates the usefulness of mathematics in the real world
- Provides access for all students
- Connects to and builds upon prior knowledge and experiences
- Develops conceptual and procedural knowledge
- Requires thinking, modeling, reasoning, and explaining mathematical ideas
- Engages students in accountable discourse
- Provides opportunities to assess student understanding

Each Problem within a Lesson exhibits one of these attributes:

- New concept development through problem solving and investigations
- Continued practice of concepts in new situations
- Immediate practice for concepts that have been developed
- Distributive practice to reach mastery and to allow for connections to prior concepts
- Synthesis of key mathematical concepts and understandings

Student Assignments and *Skills Practice Worksheets* additional practice and engagement through the Carnegie Learning Online Resource Center. The *Student Assignments* provide opportunities for students to practice and apply their understanding of the mathematical objectives addressed in the corresponding student lesson. The *Student Skills Practice* is a supplemental resource that provides targeted practice of discrete skills within each student lesson. Each *Skills Practice* worksheet contains two sections—vocabulary and problem sets. Also provided on the Carnegie Learning Online Resource Center are See It-Try It videos. These videos explore, animate, or demonstrate a key concept or collection of concepts. Each video is tagged with its corresponding text Lesson and Problem.

- Each chapter includes a variety of *Assessments,* e.g., Pre-test, Post-test, Mid-Chapter, End of chapter, and Standardized Test Practice. Additionally, *Assessments* and additional practice worksheets can easily be generated through the ExamView test generator.
- Carnegie Learning Algebra I 3rd Edition
    - Quantities and relationships
    - Graphs, Equations, and Inequalities
    - Linear Functions
    - Sequences
    - Exponential Functions
    - Systems of Equations

Carnegie Learning Algebra 2

- **Grades 9-12**
  - Strengths:
    - Quality exercises
    - Covers Widely Applicable Prerequisites, standards, and mathematical practices
    - Requires the students to write about their thinking and discuss with other students
    - Extensive online resources
  - Weaknesses:
    - Lacks accommodations for English Language Learners and gifted students
    - Mathematical Practices are not clearly marked in the teacher or student texts
    - Paperback, would have to be replaced often or lots of copies would need to be made
    - Multiple books for the students and teachers
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    - A student-centered approach that focuses on students thinking about and discussing mathematics as active participants in their learning.
    - Tasks that make use of models—real-world situations, graphs, diagrams, and worked examples, among others—to help students see and make connections between different topics.
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- Engages students in accountable discourse
- Provides opportunities to assess student understanding

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    - Quantities and relationships
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    - Sequences
    - Exponential Functions
    - Systems of Equations

Carnegie Learning Algebra 2, Worktext/Cognitive Tutor

- **Grades 9-12**
    - **Key Features:** The Carnegie Learning Algebra I 3rd Edition text was developed to support students as they build their mathematical understanding and make connections both from previous years and within the different mathematical clusters outlined in the Common Core State Standards for Mathematics, as specified in Appendix A Pathways. The materials were strongly influenced by research into how students learn mathematics and how to best motivate them to succeed academically.

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    - Systems of Equations

Carnegie Learning Geometry

- **Grades 9-12**
    - **Strengths**:
        - Guided discussion format & approach good
        - Consumable materials are appealing & not overwhelming
        - Lesson themes used to introduce section and carried through
        - Adaptable for all students through focus on communication
    - **Weaknesses**:
        - Specific helps for ELLs & other needs could be more explicit
        - Two distinct manuals for Assignments & Skills Practice could be seen as a weakness

- **Key Features:** The Carnegie Learning Algebra I 3rd Edition text was developed to support students as they build their mathematical understanding and make connections both from previous years and within the different mathematical clusters outlined in the Common Core State Standards for Mathematics, as specified in Appendix A Pathways. The materials were strongly influenced by research into how students learn mathematics and how to best motivate them to succeed academically.

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Carnegie Learning Geometry, Worktext/Cognitive Tutor

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Cengage

Trigonometry, 9/E

- **Grades 9-12**
    - **Strengths**:
        - Relates concepts to prior knowledge throughout text and in Chapter 1
        - Prerequisite Chapter
        - End of chapter review summary
        - How Do You See It, Exploration, Summarize, and Problem Solving given in each section and/or chapter
        - Scope and sequence
        - Scaffolding of exercises
        - Pictures and illustrations do not distract from content
        - Lesson Plan book gives pacing guides, more examples, and section objectives
        - Disc has nice resources
    - **Weaknesses**:
        - The ELL only supports Spanish learners
        - The red on whit cannot be seen by some color blind students
        - No differential resources for teachers
    - **Key Features:** Larson's Trigonometry is known for delivering sound, consistently structured explanations and exercises of mathematical concepts. With the ninth edition, the author continues to revolutionize the way students learn material by incorporating more real-world applications, ongoing review, and innovative technology. The methodology and execution of material provides students with the tools that they need to master trigonometry.

      Features include:

- Side-By-Side Examples help students see not only that a problem can be solved in more than one way but also how different methods--algebraically, graphically, and numerically--yield the same result. The side-by-side format also addresses many different learning styles.
- Algebra Helps direct students to sections of the textbook where they can review algebra skills needed to master the current topic.
- Technology Features offer suggestions for effectively using tools such as calculators, graphing calculators, and spreadsheet programs to deepen student understanding of concepts, ease lengthy calculations, and provide alternate solution methods for verifying answers obtained by hand.
- Algebra of Calculus Examples and Exercises throughout the text emphasize various algebraic techniques used in calculus.
- Vocabulary Exercises at the beginning of the exercise set for each section help students review previously learned vocabulary terms necessary to solve the section exercises.
- Student Projects in various sections and online feature in-depth applied exercises with large, real-life data sets, where students create or analyze models.
- Chapter Summaries include explanations and examples of the objectives taught in the chapter.
- Chapter Openers highlight real-life problems that connect to the examples and exercises presented in the following chapter.
- Innovative Summarize Features help students organize the lesson's key concepts into a concise summary, providing a valuable study tool at the end of each section.
- Unprecedented How Do You See It? Exercises in every section present real-life problems that students solve by visual inspection using the concepts in the lesson.
- Checkpoint Problems encourage immediate practice and check students' understanding of the concepts in the paired example.
- Expanded Section Objectives offer students the opportunity to preview what will be presented in the upcoming section.
- Enriched Remarks reinforce or expand on concepts helping students learn how to study mathematics, avoid common errors, address special cases, or show alternative or additional steps to a solution of an example.

Series Companion Website features chapter projects, data tables, assessments, study tools, video solutions, and more to support students outside the text.

College Prep Algebra

- **Grades 9-12**
  - **Strengths**:
    - Helpful teacher notes in the margins of the teacher's edition including common misconceptions by students
    - Extensive number of procedural and conceptual problems in each lesson
    - Many different examples with different levels of difficulties
    - Quality scaffolding in each lesson
    - Hard cover, colorful, quality graphics, good text to graphic ratio
    - Extensive online resources
    - Quality modeling and conceptual problems
    - Highlights vocabulary
    - Students spend well of 50% of their time on WAPs
  - **Weaknesses**:
    - Doesn't cover F-BF.2
    - Doesn't cover S-IC.1
    - Doesn't cover F-LE.1
    - No ELL accommodations throughout the text
    - Weak on Mathematical Practices 5 and 8
    - Mathematical Practices aren't identified

        - Connections between clusters and domains is lacking
    - **Key Features:** Ideal for 3rd or 4th year math students, COLLEGE PREP ALGEBRA presents a pedagogically sound, mathematically precise, and comprehensive text that provides students with the tools they need to master algebra.

      Features include:
        - Integrates a wide variety of real-life applications throughout the text in examples and exercises that demonstrate the relevance of algebra to the real world, many of which use real data.
        - Examples that all have been carefully chosen to illustrate a particular mathematical concept or problem-solving technique, covering a wide variety of problems and titled for easy reference.
        - Many examples that offer detailed, step-by-step solutions with side comments to explain the key steps of the solution process.
        - Provides exercises that appear on the same page and immediately follow a corresponding example, eliminating the need to flip back and forth from example to exercise.

Algebra and Trigonometry

- **Grades 9-12**
    - **Strengths**:
        - Text includes a high level of rigor
        - Ample problems and exercises
        - Procedural and application exercises
        - Well-organized and logical structure
        - Visually appealing
        - Meets CCSSM 4th year standards
    - **Weaknesses**:
        - Practice standards and state standards are not readily identifiable
        - Lacking conceptual understanding problems
        - Little support for ELL and other special populations
        - Assessments do not include rubrics, are only in multiple-choice format
    - **Key Features:** Larson's Algebra and Trigonometry delivers sound, consistently structured explanations and carefully written exercises of key mathematical concepts. With the Ninth Edition, the author continues to revolutionize the way students learn material by incorporating more real-world applications and on-going review. The methodology and execution of material provides students with the tools that they need to master algebra and trigonometry.

      Features include:
        - Side-By-Side Examples help students not only see that a problem can be solved in more than one way but how different methods—algebraically, graphically, and numerically—yield the same result. The side-by-side format also addresses many different learning styles.
        - Algebra Help features direct students to sections of the textbook where they can review algebra skills needed to master the current topic.
        - Checkpoint problems encourage immediate practice and check student understanding of all the core concepts presented in the example.
        - Technology Features offer suggestions for effectively using tools such as calculators, graphing calculators, and spreadsheet programs to deepen student understanding of

concepts, ease lengthy calculations, and provide alternate solution methods for verifying answers obtained by hand.

- Algebra of Calculus Examples and Exercises throughout the text emphasize various algebraic techniques used in calculus.
- Vocabulary Exercises at the beginning of the exercise set for each section help students review previously learned vocabulary terms necessary to solve the section exercises.
- Student Projects in various sections and online feature in-depth applied exercises with large, real-life data sets, where students create or analyze models.
- Each Chapter Opener highlights real-life applications used in the examples and exercises.
- A bulleted list of learning objectives lets students preview what will be presented in the upcoming section.
- Chapter Summaries include explanations and examples of the objectives taught in the chapter.
- The How Do You See It? feature in each section presents a real-life exercise students solve by visual inspection using the concepts learned in the lesson. This exercise is excellent for classroom discussion or test preparation.
- The exercise sets have been carefully and extensively examined to ensure they are rigorous and relevant and to include all topics our users have suggested. The exercises have been organized and titled so students can quickly see the connections between examples and exercises. Multi-step, real-life exercises reinforce problem-solving skills and mastery of concepts by giving students the opportunity to apply the concepts to real-life situations.

LarsonPrecalculus.com. This free companion website offers multiple tools and resources to supplement your students' learning. Students can view and listen to worked-out solutions of Checkpoint problems in English or Spanish, download data sets, explore examples, watch lesson videos, and much more.

Precalculus with Limits

- **Grades 9-12**
  - **Strengths**:
    - This curriculum has done a good job of supporting the ideas that are needed to the new standards. The WAP are represented in all facets of the text and conceptual understanding and real-life applications are present throughout.
  - **Weaknesses**:
    - Some of the textbook is old school. There could be more places to pursue “we do” problems and differentiation in higher cognitive problems.
  - **Key Features:** Larson's Precalculus with Limits delivers sound, consistently structured explanations and carefully written exercises of key mathematical concepts. With the Ninth Edition, the author continues to revolutionize the way students learn material by incorporating more real-world applications and on-going review.

    Features include:
    - Algebra Helps directs students to sections of the textbook where they can review algebra skills needed to master the current topic.
    - Checkpoint problems encourage immediate practice and check student understanding of the concepts presented.
    - Algebra of Calculus Examples and Exercises throughout the text emphasize various algebraic techniques used in calculus.

- Vocabulary Exercises at the beginning of the exercise set for each section help students review previously learned vocabulary terms necessary to solve the section exercises.
- Student Projects in various sections and online feature in-depth applied exercises with large, real-life data sets, where students create or analyze models.
- Technology Features offer suggestions for effectively using tools such as calculators, graphing calculators, and spreadsheet programs to deepen student understanding of concepts, ease lengthy calculations, and provide alternate solution methods for verifying answers obtained by hand.
- Chapter Openers highlight real-life problems that connect to the examples and exercises presented in the following chapter.
- Innovative Summarize Features help students organize the lesson's key concepts into a concise summary, providing a valuable study tool at the end of each section.
- Unprecedented How Do You See It? Exercises in every section present real-life problems that students solve by visual inspection using the concepts in the lesson.
- Original Checkpoint Problems encourage immediate practice and check students' understanding of the concepts in the paired example.
- Series Companion Website features chapter projects, data tables, assessments, study tools, video solutions, and more to support students outside the text.
- Section Objectives offer students the opportunity to preview what will be presented in the upcoming section.
- Enriched Remarks reinforce or expand on concepts helping students learn how to study mathematics, avoid common errors, address special cases, or show alternative or additional steps to a solution of an example.

Series Companion Website features chapter projects, data tables, assessments, study tools, video solutions, and more to support students outside the text.

Precalculus with Limits, A Graphing Approach

- **Grades 9-12**
  - **Strengths**:
    - Thoughtfully structured lessons
    - Contains problems with application and modeling
    - Organized sequential lessons
    - Good assessments and teaching components to help assist the teacher
    - Consistent layout of lessons and exercises throughout the text
    - Visually friendly
  - **Weaknesses**:
    - Online Spanish resources but nothing within the text
  - **Key Features:** PRECALCULUS WITH LIMITS: A GRAPHING APPROACH, 7th Edition, is an ideal student and instructor resource for high school courses that require the use of a graphing calculator. The quality and quantity of the exercises, combined with interesting applications and innovative resources, make teaching easier and help students succeed. Retaining the series' emphasis on student support, selected examples throughout the text include notations directing students to previous sections to review concepts and skills needed to master the material at hand. The book also achieves accessibility through careful writing and design--including examples with detailed solutions that begin and end on the same page, which maximizes readability. Similarly, side-by-side solutions show algebraic, graphical, and numerical representations of the mathematics and support a variety of learning styles.

    Features include:

- Library of Parent Functions: To facilitate familiarity with the basic functions, a Library of Parent Functions contains several elementary and non-elementary functions. Each function is introduced at the first point of use in the text with a definition and description of basic characteristics. The Library of Parent Functions Examples is identified in the title of the example and there is a Review of Library of Parent Functions after Chapter 4. A summary of functions is presented on the inside cover of this text.
- Technology Tips provide graphing calculator tips or provide alternate methods of solving a problem using a graphing utility.
- Throughout the text, special emphasis is given to the algebraic techniques used in calculus. “Algebra of Calculus” examples and exercises are integrated throughout the text.
- Algebraic-Graphical-Numerical Exercises: These exercises allow students to solve a problem using multiple approaches: algebraic, graphical, and numerical. This helps students see that a problem can be solved in more than one way and that different methods yield the same result.
- Modeling Data Exercises: These multi-part applications involve real-life data and offer students the opportunity to generate and analyze mathematical models.
- The Vocabulary and Concept Check appears at the beginning of the exercise set for each section. Each of these checks asks fill-in-the-blank, matching, and non-computational questions designed to help students learn mathematical terminology and to test basic understanding of that section's concepts.
- What you should learn/Why you should learn it: These summarize important topics in the section and why they are important in math and life.
- The Chapter Summary includes explanations and examples of the objectives taught in the chapter.
- Error Analysis: This exercise presents a sample solution that contains a common error, which the students are asked to identify.
- Each Chapter Opener highlights real-life applications used in the examples and exercises.
- The How Do You See It? feature in each section presents a real-life exercise that students solve by visual inspection using the concepts learned in the lesson. This exercise is excellent for classroom discussion or test preparation.
- A bulleted list of learning objectives gives students the opportunity to preview what will be presented in the upcoming section.
- These hints and tips, called “Remarks,” reinforce and/or expand upon concepts, help students learn how to study mathematics, address special cases, or show alternative or additional steps to a solution of an example.
- Accompanying every example, the Checkpoint problems encourage immediate practice and check students' understanding of the concepts presented in the example. Students can view and listen to worked-out solutions of the Checkpoint problems in English or Spanish at LarsonPrecalculus.com.

LarsonPrecalculus.com: This companion website offers free access to multiple tools and resources that supplement student learning. Students can view and listen to worked-out solutions of Checkpoint problems in English or Spanish, download data sets, explore examples, watch lesson videos, and much more.

Precalculus: Mathematics for Calculus

- **Grades 9-12**
  - **Strengths**:

        - The program is well written and easy to follow
        - Good assessments and teaching components to assist the teacher
        - Consistency in lessons and exercises throughout the text
        - Organized and sequential lessons
        - Real world applications and modeling problems
    - **Weaknesses**:
        - The Pre-Calculus text does not directly list or address the practice standards; however, it does present all of the practice standards within the lessons, exercises, and assessments
    - **Key Features:** This bestselling author team explains precalculus concepts simply and clearly, without glossing over difficult points. Problem solving and mathematical modeling are introduced early and reinforced throughout, providing students with a solid foundation in the principles of mathematical thinking. Comprehensive and evenly paced, the book provides complete coverage of the function concept, and integrates a significant amount of graphing calculator material to help students develop insight into mathematical ideas.

        Features include:
        - Focuses on Modeling sections illustrate modeling techniques as well as how mathematics can be applied to model real-life situations. These sections, as well as others, are devoted to teaching students how to create their own mathematical models, rather than using prefabricated formulas.
        - Real-world applications from engineering, physics, chemistry, business, biology, environmental studies, and other fields demonstrate how mathematics is used to model real-life situations.
        - Mathematics in the Modern World vignettes show that mathematics is a living science crucial to the scientific and technological progress of recent times, as well as to the social, behavioral, and life sciences.
        - Discovery/Discussion/Writing problems at the end of every section encourage students to use and develop conceptual, critical thinking, and writing skills.
        - Discovery Projects engage students by providing a challenging but accessible set of activities that enable them (perhaps working in groups) to explore in greater depth an interesting aspect of the topic they have just learned.
        - Review Sections and Chapter Tests at the end of each chapter help students gauge their learning progress. Brief answers to the odd-numbered exercises in each section and to all questions in the Chapter Tests are provided at the back of the book.
        - Groups of exercises now have headings that identify the type of exercise. Skills Plus exercises in most sections contain more challenging exercises that require students to extend and synthesize concepts.
        - Review Material: The review material at the end of each chapter now includes a summary of properties and formulas and a new Concept Check. Each Concept Check provides a step-by-step review of all the main concepts and applications of the chapter. Answers to the Concept Check questions are on tear-out sheets at the back of the book.

        Geometry Review: Appendix A contains a review of the main concepts of geometry used in this book, including similarity and the Pythagorean Theorem.

Great Minds

Eureka Math – A Story of Functions Algebra I

- **Grades 9-12**
    - **Notes:**
        - In order for this curriculum to be adopted and be appropriate for the grade level, Great Minds' texts would have to have been adopted in earlier grades before this class.
    - **Strengths**:

        - Good use of prior knowledge
        - Covers all standards
        - Module overview is very useful
        - Good conceptual problems to support deeper learning
        - Covers all mathematical practices and explicitly marks where they are covered
        - Scaffolding suggestions in teacher edition are helpful
    - **Weaknesses**:
        - Very rigorous
        - In some areas/sections the amount of procedural problems are lacking
        - No glossary
        - Vocabulary not clearly marked throughout lessons
        - Lacking in ELL and special populations accommodations
        - No Spanish/English glossary
    - **Key Features:** The Eureka Math elementary mathematics curriculum, A Story of Functions®, offers print and digital components for teachers and students, as well as live and online professional development for teachers and support resources for parents. Spanish translations of student-facing materials will be available to support the 2016-2017 school year.

Eureka Math – A Story of Functions Geometry

- **Grades 9-12**
    - **Notes:** Eureka Geometry would be most successful if foundational skills and comprehension are strong to begin with due to Eureka's rigor.
    - **Strengths**:
        - Mathematical practice approach and the conceptual understanding it builds
        - There are rich application problems and the concrete to abstract learning is seen throughout
    - **Weaknesses**:
        - The text is not as visually appealing for student's engagement
        - Navigation is a bit awkward with topics on the bottom of the page instead of the top
    - **Key Features:** The Eureka Math elementary mathematics curriculum, A Story of Functions®, offers print and digital components for teachers and students, as well as live and online professional development for teachers and support resources for parents. Spanish translations of student-facing materials will be available to support the 2016-2017 school year.

Eureka Math – A Story of Functions – Algebra II

- **Grades 9-12**
    - **Notes:** Algebra II represents a math curriculum with high expectations for all learners. This is certainly strength, but the design of the curriculum could leave struggling learners behind without additional support provided outside of the curriculum. Referring teachers (and students) to earlier curriculum to review and reinforce standards can be useful, but it does not provide support for students that struggled in the same curriculum previously (e.g. the algebra II student that also complete4d work in Eureka Math: Algebra I).

      The text does cover all standards and mathematical practices.

      Adoption of this specific title make sense if a school adopts Eureka Math for all grades (or at least all grades addressed within a specific story-A Story of Ratios and Functions is grade 6-12) because all stakeholders become familiar with the nuances and processes of the curriculum.

Additionally, this is a “free” curriculum that can be accessed by anyone online. This is great! With that said, schools that purchase this curriculum would either need to buy workbooks each year or print out the student materials.

- **Key Features:** The Eureka Math elementary mathematics curriculum, A Story of Functions®, offers print and digital components for teachers and students, as well as live and online professional development for teachers and support resources for parents. Spanish translations of student-facing materials will be available to support the 2016-2017 school year.

Eureka Math – A Story of Functions – Pre Calculus

- **Grades 9-12**
  - **Notes:** Eureka Pre-calculus would be most successful if prior material is rigorous in skills and comprehension. It would be perfect material for STEM courses and motivated learners.

    Strengths are in the design of the text as a whole, in building on prerequisites, on engaging application problems, in the rigor and appropriate level of vocabulary, the lesson designs, the ample procedural practice problems, the authentic assessments, and opportunities to differentiate and extend student learning.
    - The text leads with the “story” of each concept, and leads teachers/students through big ideas toward procedural tasks in a cohesive manner.
    - This material would also be a great tool to, possibly, engage “at-risk” students.
    - Very rich material

    Weaknesses are very few. Navigation was at times slightly awkward with the topic heading at the bottom of the page instead of the top.

  - **Key Features:** The Eureka Math elementary mathematics curriculum, A Story of Functions®, offers print and digital components for teachers and students, as well as live and online professional development for teachers and support resources for parents. Spanish translations of student-facing materials will be available to support the 2016-2017 school year.

Houghton Mifflin Harcourt

HMH Algebra 1

- **Grades 9-12**
  - **Notes:** This curriculum meets all the requirements; however it is not necessarily visually appealing to young adults. Teacher’s edition has ideas to promote collaborative learning in the classroom as well as incorporate STEM activities throughout the text. The textbook was definitely designed around the CCSS and aligns very well. The practice problems are written more as story problems and less the traditional way. There is a task performance problem in each homework section; however, the task performance problem is just an extension of a story problem. The 8 MPs are very apparent throughout the textbook. The online resources really provide a lot of support when found. This requires extensive researching of the online resources.

  - **Key Features: HMH Algebra 1** provides coherent, focused, and rigorous instruction through a blended learning approach. This digital-first program offers an interactive HTML pathway that is organized around the 5E Model of Instruction (Engage, Explore, Explain, Elaborate, and Evaluate)

and built to meet 100 percent of the Common Core State Standards. The concise print offering showcases interactivity with a “less talking, more doing” approach to teaching mathematics. Developed for its 2015 release, **HMH Algebra 1** delivers current, relevant information that teachers and students connect with and the accuracy Idaho teachers and students can count on.

Created to reach today’s students in their preferred learning style and built around the groundbreaking *HMH Player™ App,* **HMH Algebra 1** is uniquely organized into modules, or content clusters, that allow students to make connections across mathematical domains, better preparing them for high-stakes assessments and college and career math. The digital student experience leverages the best in digital functionality and instructional design to engage students by meeting them where they are and taking them where they need to be.

With the Mathematical Practices embedded in every lesson, the program engages and provides rigor and depth of understanding through interactivity, research-based instructional approaches, best practices, and differentiated instructional resources to ensure success for all students in Idaho’s schools.

HMH Geometry

- **Grades 9-12**
  - **Strengths**:
    - This curriculum meets all requirements
    - The textbook covers CCSS and aligns well
    - The 8 MPs are apparent throughout the textbook
    - Online resources are fantastic
  - **Weakness**:
    - Might not be visually appealing to young adults
  - **Key Features: HMH Geometry** provides coherent, focused, and rigorous instruction through a blended learning approach. This digital-first program offers an interactive HTML pathway that is organized around the 5E Model of Instruction (Engage, Explore, Explain, Elaborate, and Evaluate) and built to meet 100 percent of the Common Core State Standards. The concise print offering showcases interactivity with a “less talking, more doing” approach to teaching mathematics. Developed for its 2015 release, **HMH Algebra 1** delivers current, relevant information that teachers and students connect with and the accuracy Idaho teachers and students can count on.

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HMH Algebra II

- **Grades 9-12**
  - **Notes:**
    - Videos on PD for each module

        - Digital TE
        - Personal Math Tutor
    - **Strengths**:
        - Glossary in both English and Spanish with problems worked out side by side in both English and Spanish
        - RTI support is helpful
        - Offering of professional development
        - Student edition is consumable with blanks to help with note writing
    - **Weakness**:
        - Index is limited-conjugate is not listed
        - Student edition is softbound so districts would have to purchase each year
    - **Key Features: HMH Algebra 2** provides coherent, focused, and rigorous instruction through a blended learning approach. This digital-first program offers an interactive HTML pathway that is organized around the 5E Model of Instruction (Engage, Explore, Explain, Elaborate, and Evaluate) and built to meet 100 percent of the Common Core State Standards. The concise print offering showcases interactivity with a "less talking, more doing" approach to teaching mathematics. Developed for its 2015 release, **HMH Algebra 1** delivers current, relevant information that teachers and students connect with and the accuracy Idaho teachers and students can count on.

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      With the Mathematical Practices embedded in every lesson, the program engages and provides rigor and depth of understanding through interactivity, research-based instructional approaches, best practices, and differentiated instructional resources to ensure success for all students in Idaho's schools.

HMH Integrated Mathematics 1

- **Grades 9-12**
    - **Strengths**:
        - Lots of extra materials for the teacher
        - Extra support materials for special populations
        - Task based learning
        - Lots of online resources for students and teachers
        - A variety of assessment
    - **Weaknesses**:
        - Not a lot of focus on the conceptual understanding
        - Textbook is lacking in color
    - **Key Features: Houghton Mifflin Harcourt Integrated Mathematics 2** (**HMH Integrated Mathematics 2**), part of the **Houghton Mifflin Harcourt Integrated Mathematics 1, 2, 3** (**HMH Integrated Mathematics 1, 2, 3**) program, provides coherent, focused, and rigorous Common Core instruction though a blended learning approach. The program begins with a digital student experience organized around the 5E Model of Instruction (Engage, Explore, Explain, Elaborate, Evaluate) and follows an interactive HTML5 pathway. The concise print offering also showcases interactivity with a "less talking, more doing" approach to teaching mathematics. The program

provides rigor and depth of understanding through interactive lessons, research-based instructional approaches, best practices, and differentiation of instructional resources to ensure success for all students. The program is distinguished from other programs by its:

- Seamless integration of digital features reaching today's students in their preferred learning style
- Digital course management tools which offer teachers flexibility in planning, instruction, and assessment for in-class or on-the-go learning
- Focused, balanced, and rigorous instruction that encompasses the philosophy and intent of the standards
- Digital-first solution, built around the groundbreaking *HMH Player*, which transcends the traditional approach of eBooks and online resources, providing an enhanced tablet-friendly digital experience for students, teachers, and parents

Personalized and adaptive instruction taken to the next level with *Personal Math Trainer*®, powered by Knewton™

HMH Integrated Mathematics 2

- **Grades 9-12**
  - **Notes**:
    - Many resources for teachers to use reach a variety of learner at their current understanding. Easy to navigate. Book is aligned with the standards and is easy to find the alignment in the teacher's edition. Nice glossary; however, it only supports English and Spanish readers. Focus is on procedural skills. The student edition is consumable but there is an online resource.
  - **Key Features: Houghton Mifflin Harcourt Integrated Mathematics 2** (**HMH Integrated Mathematics 2**), part of the **Houghton Mifflin Harcourt Integrated Mathematics 1, 2, 3** (**HMH Integrated Mathematics 1, 2, 3**) program, provides coherent, focused, and rigorous Common Core instruction though a blended learning approach. The program begins with a digital student experience organized around the 5E Model of Instruction (Engage, Explore, Explain, Elaborate, Evaluate) and follows an interactive HTML5 pathway. The concise print offering also showcases interactivity with a "less talking, more doing" approach to teaching mathematics. The program provides rigor and depth of understanding through interactive lessons, research-based instructional approaches, best practices, and differentiation of instructional resources to ensure success for all students. The program is distinguished from other programs by its:
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HMH Integrated Mathematics 3

- **Grades 9-12**
  - **Strengths**:

- This curriculum is a complete package that addresses the needs of all learners. Differentiation and tiered interventions are provided for every lesson, scaffolding is embedded in the curriculum with appropriate gradual release, language support is well developed, and extensions are provided for accelerated learners. Assistive support is included in the digital curriculum. The design of the curriculum is consistent throughout the digital and print presentations. Color, white space, and textual emphasis are used effectively to convey information without overwhelming the learner or the teacher (page layout is significantly better than some older textbooks). The digital material, especially the interactive textbooks, is quite useful. The digital glossary, including 10+ languages, is handy.

- **Weaknesses**:
  - The digital version of this text is accessible (a plus), but the design of the interactive textbook is concerning. Although developed as an HTML5 application, some material is hidden behind menus and options which mean some screen readers may not be able to access the material. This is problematic as students that receive this type of assistive technology may not be able to sure their screen reader of choice. Additionally, speech-to-text is not included in the interactive textbook. iOS Dictation does work in the interactive textbook, so this probably isn't an issue for other assistive programs. The digital edition is clearly designed for tablet interfaces but common tablet interactions are not recognized, or don't behave as expected. Swiping does not provide navigation between pages of each lesson, and zooming by pinch does not work. Teachers can download an offline copy of the teacher resources, but it isn't clear if a single pdf download is available for the text. As noted previously, PDF search is more efficient in external programs. If this pdf is available, it isn't easy to find.

- **Key Features: Houghton Mifflin Harcourt Integrated Mathematics 2** (**HMH Integrated Mathematics 2**), part of the **Houghton Mifflin Harcourt Integrated Mathematics 1, 2, 3** (**HMH Integrated Mathematics 1, 2, 3**) program, provides coherent, focused, and rigorous Common Core instruction though a blended learning approach. The program begins with a digital student experience organized around the 5E Model of Instruction (Engage, Explore, Explain, Elaborate, Evaluate) and follows an interactive HTML5 pathway. The concise print offering also showcases interactivity with a "less talking, more doing" approach to teaching mathematics. The program provides rigor and depth of understanding through interactive lessons, research-based instructional approaches, best practices, and differentiation of instructional resources to ensure success for all students. The program is distinguished from other programs by its:
  - Seamless integration of digital features reaching today's students in their preferred learning style
  - Digital course management tools which offer teachers flexibility in planning, instruction, and assessment for in-class or on-the-go learning
  - Focused, balanced, and rigorous instruction that encompasses the philosophy and intent of the standards
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McGraw-Hill School Education

Core Plus Course 1

- **Grades 9-12**

- **Strengths**:
  - Design focuses on active learning through investigations
  - 4-phrase lesson cycle
  - Summarize the math reflection component
  - Strong alignment with content standards and interfacial development of practice standards
- **Weakness**:
  - Explicit support for ELL and other adaptations could be increased (this is an explicit design choice, however)
- **Key Features:** The *Core-Plus Mathematics* Project has completed a revised edition of its integrated, problem-based, technology-rich four-year curriculum. Revisions were informed by recent research on student learning, continuing feedback from teachers using the curriculum materials, and the Common Core State Standards for Mathematics (CCSS), with which the new edition is strongly aligned. The CCSS Edition of *Core-Plus Mathematics* builds on the strengths of the first edition that was recognized by the U.S. Department of Education as one of six exemplary mathematics programs in the U.S., and the updated and refined second edition that was recognized by the American Institute for Research and the Business-Higher Education Forum's Strategic Ed Solutions as one of 35 education programs in the U.S. (across all subject areas) that increase student achievement and improve college and career readiness. In creating the CCSS edition of *Core-Plus Mathematics*, we have used mathematical modeling as an effective way of connecting the Mathematical Practices and the Content-related Standards across Conceptual Categories.

Core Plus Course 2

- **Grades 9-12**
  - **Notes:**
    - The entire Core Plus program should be adopted as a whole due to the sequencing of content. It does not fully align to Appendix A, in regards to sequence of content. A district will need to decide if a sequencing change needs to occur, depending on the pathway model the district has adopted. Again, the curriculum does not follow the integrated pathway model given in Appendix A of the CCSS-M. The minimal resources available for special populations are also a deterrent for a recommended adoption. The text relies heavily on an immersion model with students receiving support through group work. The text also relies on students having strong reading skills.
  - **Strengths**:
    - The investigative tasks are well designed
    - The text is cohesive
    - The text does a nice job of using multiple representations of mathematics to reach a variety of learners
  - **Weaknesses**:
    - Minimal ELL and Special population support
    - No summative assessments were provided
    - Answer keys for quizzes were not available
  - **Key Features:**
    - The *Core-Plus Mathematics* Project has completed a revised edition of its integrated, problem-based, technology-rich four-year curriculum. Revisions were informed by recent research on student learning, continuing feedback from teachers using the curriculum materials, and the Common Core State Standards for Mathematics (CCSS), with which the new edition is strongly aligned. The CCSS Edition of *Core-Plus Mathematics* builds on the strengths of the first edition that was recognized by the U.S. Department of Education

as one of six exemplary mathematics programs in the U.S., and the updated and refined second edition that was recognized by the American Institute for Research and the Business-Higher Education Forum's Strategic Ed Solutions as one of 35 education programs in the U.S. (across all subject areas) that increase student achievement and improve college and career readiness. In creating the CCSS edition of *Core-Plus Mathematics*, we have used mathematical modeling as an effective way of connecting the Mathematical Practices and the Content-related Standards across Conceptual Categories.

Core Plus Course 3

- **Grades 9-12**
  - **Notes:**
    - Overall, strengths were that this is a problem based course which deepens students understanding conceptually, the layout is clear, and the problems are interesting and engaging for students. The tools provided were appropriate for the problems they were applied to. Teacher sources were strong in support of student learning.
  - **Key Features:**
    - The *Core-Plus Mathematics* Project has completed a revised edition of its integrated, problem-based, technology-rich four-year curriculum. Revisions were informed by recent research on student learning, continuing feedback from teachers using the curriculum materials, and the Common Core State Standards for Mathematics (CCSS), with which the new edition is strongly aligned. The CCSS Edition of *Core-Plus Mathematics* builds on the strengths of the first edition that was recognized by the U.S. Department of Education as one of six exemplary mathematics programs in the U.S., and the updated and refined second edition that was recognized by the American Institute for Research and the Business-Higher Education Forum's Strategic Ed Solutions as one of 35 education programs in the U.S. (across all subject areas) that increase student achievement and improve college and career readiness. In creating the CCSS edition of *Core-Plus Mathematics*, we have used mathematical modeling as an effective way of connecting the Mathematical Practices and the Content-related Standards across Conceptual Categories.

Core Plus Mathematics Course 4: Preparation for Calculus

- **Grades 9-12**
  - **Notes:**
    - This text is a problem-based text that lends itself to strong mathematical practices throughout the entire content. Students are expected to develop deep conceptual understandings that are built off of widely Applicable Prerequisites. The teacher's support in the annotated teacher's edition is beneficial to promote mathematical discussions. The organization of the material is easy to follow, and the flow and coherence makes this content easy to use for teachers and students. Throughout the text the students are expected to engage with other students to learn rather than just teacher directed. The online teacher materials are important but there are no hard copy materials for solutions or answers for the tests/assessments.
  - **Key Features:**
    - The *Core-Plus Mathematics* Project has completed a revised edition of its integrated, problem-based, technology-rich four-year curriculum. Revisions were informed by recent research on student learning, continuing feedback from teachers using the curriculum materials, and the Common Core State Standards for Mathematics (CCSS), with which the new edition is strongly aligned. The CCSS Edition of *Core-Plus Mathematics* builds on the strengths of the first edition that was recognized by the U.S. Department of Education as one of six exemplary mathematics programs in the U.S., and the updated and refined second edition that was recognized by the American Institute for Research and the

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Glencoe Algebra 1

- **Grades 9-12**
  - **Strengths**:
    - The TE indicates how the materials are supposed to meet the CCSS.
    - Specific resources are cited for each lesson.
    - The SE has many exercises designed to improve or enhance students' procedural skills.
  - **Weaknesses**:
    - The assignments are unbalanced, with way too much emphasis on procedure and very little emphasis on application or engaging problems.
    - Quality of material used in textbook construction does not lend itself to durability. In the short time of the review process, binding on text began to separate.
    - Review copy was missing numerous pages in the student edition.
    - While attempts have been made to make this text "Common Core", it appears to mostly be a traditional algebra textbook with CCSS labels.
  - **Key Features:**
    - Balanced instruction throughout the Glencoe High School Mathematics Series, including Algebra 1, Geometry, Algebra 2, and Precalculus, emphasizes both understanding and fluency. Features include Key Concept boxes with multiple representations, a four-step problem solving plan, correlation between examples and exercises, word problems within each lesson, reading and vocabulary support, and student-centered activity labs. The Glencoe High School Math Series is a comprehensive program, including all of the major mathematical content strands and mathematical processes. Main Ideas and Key Concepts are highlighted in the Student Edition. The Teacher Edition includes Focus on Mathematical Content for each chapter. This section provides Big Ideas, which explains why the content is important in this chapter and in later studies, and Lesson Summary features, which outline the mathematical ideas of each lesson in the chapter. The Glencoe High School Math Series is carefully aligned with national standards. Each curriculum contains Standardized Test examples and practice problems like those found on standardized tests— within the lessons, the Mid-Chapter Quiz, and the Practice Chapter Test. The Glencoe High School Math Series curriculum is coherent and coordinated. It is vertically aligned between courses and vertically aligned at the lesson level. The Teacher Edition includes a detailed description of vertical alignment for each chapter. The Focus step in each lesson includes the vertical alignment for that lesson. In the Student Edition, Get Ready for the Chapter provides both a diagnostic quiz and a review of related concepts that were previously studied. Dynamic, digital features of the program include an online Interactive Student Guide (Algebra 1, Geometry, and Algebra 2) which provides opportunities for lesson reflection, higher-order thinking, performance tasks and Common Core-style assessment questions; Geometer's Sketchpad to support visualization of difficult concepts and independent exploration; and optional embedded ALEKS for point-of-use, personalized math support and extension.

Glencoe Geometry

- **Grades 9-12**

- **Strengths**:
  - The TE indicates how the materials are supposed to meet the CCSS.
  - Specific resources are cited for each lesson.
  - The SE has many exercises designed to improve or enhance students' procedural skills.
- **Weaknesses**:
  - The assignments are unbalanced, with way too much emphasis on procedure and very little emphasis on application or engaging problems.
  - Quality of material used in textbook construction does not lend itself to durability. In the short time of the review process, binding on text began to separate.
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Big Ideas Math Geometry

- **Grades 9-12**
  - **Strengths:**
    - Problems with scaffolding and differentiation
    - Laurie's Notes for beginning and advanced teachers
    - Spiraling curriculum
    - Lots of explorations
    - List of postulates and theorems at end of text
    - Dynamic real-world applications
    - Each chapter begins with a common core progression (ex T-298)
    - Well developed, particularly if teacher uses Laurie's Notes
  - **Weaknesses**:
    - Connection between the written textbook and the online components is not readily apparent within the lessons.
    - No examples or diagrams in glossary
  - **Key Features:**
    - Maintaining Mathematical Proficiency
    - Mathematical Practices
    - Essential Questions
    - Communicate Your Answer
    - Core Vocabulary
    - Core Concepts
    - Monitoring Progress
    - Vocabulary and Core Concept Check
    - Monitoring Progress and Modeling with Mathematics
    - Error Analysis
    - How Do You See It?
    - Thought Provoking
    - Maintaining Mathematical Proficiency
    - What Did You Learn?
    - Standards Assessments

Laurie's Notes in the Teaching Edition

Big Ideas Math Blue: A Common Core Curriculum

- **Grade 8**
  - **Strengths**:
    - This book is much "smaller" in comparison to many other text books. This is due to the coherence to the CCSS with basic review instead of comprehensive review of previous grades. The teacher's edition is an invaluable resource that gives multiple lesson strategies, presentations of learning, and motivational strategies. The curriculum is CCSS aligned with strict obedience to the mathematical practices and grade level vocabulary. Hardback student text will hold up better than other books.
  - **Key Features:**
    - What You Learned Before
    - Essential Questions
    - What Is Your Answer?
    - Meaning of the Word
    - Key Vocabulary

        - Key Ideas
        - Now You're Ready
        - On Your Own
        - Check It Out
        - Vocabulary and Concept Check
        - Practice and Problem Solving
        - Error Analysis
        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment
        - Laurie's Notes in the Teaching Edition

Big Ideas Math Red Accelerated: A Common Core Curriculum

- **Grade 7**
    - **Strengths**:
        - Lots of resources for students, teacher, and parents
        - Laurie's notes are a great resource for teachers
        - Progression is great across all grades
        - Different paths for regular and accelerated
    - **Weaknesses**:
        - ELL suggestions don't include writing prompts or realia.
        - Laurie's notes there are times where one specific method is said to be the only way to solve a problem (pg. T-100) when in fact, mathematically there are multiple ways one can arrive at the correct answer.
    - **Key Features:**
        - What You Learned Before
        - Essential Questions
        - What Is Your Answer?
        - Meaning of the Word
        - Key Vocabulary
        - Key Ideas
        - Now You're Ready
        - On Your Own
        - Check It Out
        - Vocabulary and Concept Check
        - Practice and Problem Solving
        - Error Analysis
        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment
        - Laurie's Notes in the Teaching Edition

Big Ideas Math Algebra 1: A Common Core Curriculum

- **Grade 8**
    - **Strengths**:

        - This book is “smaller” in comparison to other math text books. This is due to the coherence to the CCSS with basic review instead of comprehensive review throughout the text.
        - Many resources to help support the teacher and also the students learning at different ability levels.
        - Hardback text which would hold up to multiple year use.
        - The curriculum is CCSS aligned with strict adherence to the mathematical practices and grade level vocabulary.
        - This book follows the accelerated Traditional Pathway found in Appendix A of the Mathematics CCSS. The standards covered in this book align directly with the Overview of the Accelerated Traditional Pathway for the CCSS found on pages 82-91 of Appendix A. Every standard is covered.
    - **Weaknesses**:
        - The visual design is a little elementary. Otherwise, a very well-designed textbook
    - **Key Features:**
        - What You Learned Before
        - Essential Questions
        - What Is Your Answer?
        - Meaning of the Word
        - Key Vocabulary
        - Key Ideas
        - Now You’re Ready
        - On Your Own
        - Check It Out
        - Vocabulary and Concept Check
        - Practice and Problem Solving
        - Error Analysis
        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment
        - Laurie’s Notes in the Teaching Edition

Big Ideas Math Advanced 1: A Common Core Curriculum

- **Grade 6**
    - **Notes**:
        - Lots of resources for students, teacher, and parents
        - Laurie’s notes are a great resource for teachers
        - Progression is great across all grades
        - Different paths for regular and accelerated
    - **Key Features:**
        - What You Learned Before
        - Essential Questions
        - What Is Your Answer?
        - Meaning of the Word
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        - Now You’re Ready
        - On Your Own

- Check It Out
- Vocabulary and Concept Check
- Practice and Problem Solving
- Error Analysis
- Taking Math Deeper
- Fair Game Review
- Study Help – Graphic Organizers
- Cartoons
- Standards Assessment
- Laurie's Notes in the Teaching Edition

Big Ideas Math Advanced 2: A Common Core Curriculum

- **Grade 7**
  - **Notes**:
    - Overall the material aims to meet the needs of all learners. There are many attempts at building conceptual understanding that work and some that ultimately end up being procedural in nature. There are plenty of support materials and suggestions for teachers. The student's Record and Practice Journal is a great tool for recording work on the group/partner activities utilized throughout the materials. There are a variety of assessment materials to choose from and including alternative assessments. Each of the assessment items includes either an item analysis or a scoring rubric (alternative assessment only). There are plenty of online resources for students to access and a Skills Review and Basic Skills Handbook. This does not however, indicate grade level or content standard aligned to the skills. The pacing allows adequate time for students to work through the concepts including many group and partner tasks. Visually, the book is busy and seems jam-packed. Teachers will need to be selective in what they choose to ask students to work on. Teachers will need to push students to higher levels of instruction on mathematical practice standards. This is an area of weakness of this text. The standards are present and addressed, but are not pushing students to think critically or apply their own strategies and models to solve.
  - **Key Features:**
    - What You Learned Before
    - Essential Questions
    - What Is Your Answer?
    - Meaning of the Word
    - Key Vocabulary
    - Key Ideas
    - Now You're Ready
    - On Your Own
    - Check It Out
    - Vocabulary and Concept Check
    - Practice and Problem Solving
    - Error Analysis
    - Taking Math Deeper
    - Fair Game Review
    - Study Help – Graphic Organizers
    - Cartoons
    - Standards Assessment
    - Laurie's Notes in the Teaching Edition

Big Ideas Learning Substitution

Big Ideas Math Green: A Common Core Curriculum

- **Grade 6**
  - **Notes**:
    - Lots of resources for students, teacher, and parents
    - Laurie's notes are a great resource for teachers
    - Progression is great across all grades
    - Different paths for regular and accelerated
  - **Key Features:**
    - What You Learned Before
    - Essential Questions
    - What Is Your Answer?
    - Meaning of the Word
    - Key Vocabulary
    - Key Ideas
    - Now You're Ready
    - On Your Own
    - Check It Out
    - Vocabulary and Concept Check
    - Practice and Problem Solving
    - Error Analysis
    - Taking Math Deeper
    - Fair Game Review
    - Study Help – Graphic Organizers
    - Cartoons
    - Standards Assessment
    - Laurie's Notes in the Teaching Edition

Big Ideas Math Red: A Common Core Curriculum

- **Grade 7**
  - **Notes**:
    - Lots of resources for students, teacher, and parents
    - Laurie's notes are a great resource for teachers
    - Progression is great across all grades
    - Different paths for regular and accelerated
  - **Key Features:**
    - What You Learned Before
    - Essential Questions
    - What Is Your Answer?
    - Meaning of the Word
    - Key Vocabulary
    - Key Ideas
    - Now You're Ready
    - On Your Own
    - Check It Out
    - Vocabulary and Concept Check
    - Practice and Problem Solving
    - Error Analysis

        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment
        - Laurie's Notes in the Teaching Edition

Big Ideas Math Blue: A Common Core Curriculum

- **Grade 8**
    - **Strengths**:
        - This book is much "smaller" in comparison to many other text books. This is due to the coherence to the CCSS with basic review instead of comprehensive review of previous grades. The teacher's edition is an invaluable resource that gives multiple lesson strategies, presentations of learning, and motivational strategies. The curriculum is CCSS aligned with strict obedience to the mathematical practices and grade level vocabulary. Hardback student text will hold up better than other books.
    - **Key Features:**
        - What You Learned Before
        - Essential Questions
        - What Is Your Answer?
        - Meaning of the Word
        - Key Vocabulary
        - Key Ideas
        - Now You're Ready
        - On Your Own
        - Check It Out
        - Vocabulary and Concept Check
        - Practice and Problem Solving
        - Error Analysis
        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment
        - Laurie's Notes in the Teaching Edition

Big Ideas Math Red Accelerated: A Common Core Curriculum

- **Grade 7**
    - **Strengths**:
        - Lots of resources for students, teacher, and parents
        - Laurie's notes are a great resource for teachers
        - Progression is great across all grades
        - Different paths for regular and accelerated.
    - **Weaknesses**:
        - ELL suggestions don't include writing prompts or realia.
        - Laurie's notes there are times where one specific method is said to be the only way to solve a problem (pg. T-100) when in fact, mathematically there are multiple ways one can arrive at the correct answer.
    - **Key Features:**
        - What You Learned Before

        - Essential Questions
        - What Is Your Answer?
        - Meaning of the Word
        - Key Vocabulary
        - Key Ideas
        - Now You're Ready
        - On Your Own
        - Check It Out
        - Vocabulary and Concept Check
        - Practice and Problem Solving
        - Error Analysis
        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment

Laurie's Notes in the Teaching Edition

Big Ideas Math Advanced 1: A Common Core Curriculum

- **Grade 6**
    - **Notes**:
        - Lots of resources for students, teacher, and parents
        - Laurie's notes are a great resource for teachers
        - Progression is great across all grades
        - Different paths for regular and accelerated
    - **Key Features:**
        - What You Learned Before
        - Essential Questions
        - What Is Your Answer?
        - Meaning of the Word
        - Key Vocabulary
        - Key Ideas
        - Now You're Ready
        - On Your Own
        - Check It Out
        - Vocabulary and Concept Check
        - Practice and Problem Solving
        - Error Analysis
        - Taking Math Deeper
        - Fair Game Review
        - Study Help – Graphic Organizers
        - Cartoons
        - Standards Assessment

Big Ideas Math Advanced 2: A Common Core Curriculum

- **Grade 7**
    - **Notes**:
        - Overall the material aims to meet the needs of all learners. There are many attempts at building conceptual understanding that work and some that ultimately end up being procedural in nature. There are plenty of support materials and suggestions for teachers.

The student's Record and Practice Journal is a great tool for recording work on the group/partner activities utilized throughout the materials. There are a variety of assessment materials to choose from and including alternative assessments. Each of the assessment items includes either an item analysis or a scoring rubric (alternative assessment only). There are plenty of online resources for students to access and a Skills Review and Basic Skills Handbook. This does not however, indicate grade level or content standard aligned to the skills. The pacing allows adequate time for students to work through the concepts including many group and partner tasks. Visually, the book is busy and seems jam-packed. Teachers will need to be selective in what they choose to ask students to work on. Teachers will need to push students to higher levels of instruction on mathematical practice standards. This is an area of weakness of this text. The standards are present and addressed, but are not pushing students to think critically or apply their own strategies and models to solve.

- **Key Features:**
  - What You Learned Before
  - Essential Questions
  - What Is Your Answer?
  - Meaning of the Word
  - Key Vocabulary
  - Key Ideas
  - Now You're Ready
  - On Your Own
  - Check It Out
  - Vocabulary and Concept Check
  - Practice and Problem Solving
  - Error Analysis
  - Taking Math Deeper
  - Fair Game Review
  - Study Help – Graphic Organizers
  - Cartoons
  - Standards Assessment

Curriculum Associates

Ready® Common Core Mathematics

- **Grade 6**
  - **Strengths**:
    - Fully aligned to standards, conceptual understanding attended to throughout, teacher and student friendly, vertical alignment charts, helps for differentiation
    - The curriculum has easy navigation, teacher and student engagement, as well as a purposeful focus on the mathematics
  - **Key Features:** Curriculum Associates' solution is research-based and proven to yield measurable improvements in students' performance against the more challenging Common Core State Standards (CCSS). Combining valid and reliable assessment, rigorous core instruction, and meaningful practice, intervention, and enrichment for those who need it, this approach includes ***Ready Common Core* and *i-Ready Diagnostic & Instruction***:
    - Diagnose: Identify student needs at the sub-skill level, based on the expectations of the Common Core and Idaho state standards with the computer-adaptive *i-Ready Diagnostic* assessment (three times each academic year—beginning, mid, and end).
    - Whole-class instruction: Use *Ready Common Core print materials* as the core day-to-day mathematics curriculum.

- Differentiate: Use *i-Ready Diagnostic* real-time reports to identify specific *i-Ready* and *Ready Common Core* resources and lessons for individual and small group intervention, plus instructional rotations.
- Independent instruction, practice, and homework: Use the *Practice and Problem Solving Book and i-Ready Instruction.*
- Progress monitoring: Track student progress via *Ready Assessments* and *i-Ready's* web-based diagnostic, interim growth monitoring, embedded progress monitoring, and standards mastery assessments.

Key features of these programs are summarized in the list below.

- *Ready Common Core* is a rigorous, on-grade level instruction and practice program for mathematics that fully prepares students for the Idaho Core State Standards for mathematics. Highly supportive for students, *Ready* also provides teachers of all backgrounds and experience levels with step-by-step, point-of-use professional development to teach the standards most effectively.
- Specifically designed and developed for the Common Core, *Ready Common Core* and *i-Ready Diagnostic & Instruction* reflect the Common Core Publishers' Criteria, learning progression documents, and the guidance from the Smarter Balanced Assessment Consortium. The solution provides print and online resources (including interactive whiteboard lessons) to differentiate instruction for students across the performance spectrum.
- The *Ready Mathematics* Student Books contain two types of lessons—concept and skills lessons. The "Focus on Math Concepts" lessons encourage students to pause from the procedural and just concentrate on the conceptual, while the "Develop Skills and Strategies" lessons build students' fluency by leading students to develop, practice, and apply new skills to solve problems.
- The *Ready Mathematics* Student Books expose students to multiple representations—to measure whether or not students have gained a deep understanding of a mathematical concept, assessment items must include multiple representations. EngageNY.org specifies three "buckets" of multiple representations:
    - **Procedural Skills:** These apply to standards that reference verbs such as *compute, solve, identify, interpret, use, make,* and *find solutions*. Procedural representations are most often multiple-choice questions that require students to apply and identify mathematical processes in various ways.
    - **Conceptual Understanding:** These representations use verbs such as *understand, explain, represent,* and *describe* when applied to standards, which results in students having to combine mathematical practices.
    - **Application:** Unique to the Common Core, application standards are represented by tasks. In general, in order to complete these tasks, students must use both procedural knowledge and conceptual understanding.

  The *Ready* program addresses all three of the multiple representations buckets. Both the Develop Skills and Strategies lessons and the Focus on Math Concepts lessons use language such as *solve, identify*, and *use*, while the Focus on Math Concepts lessons encourage students to *understand* and *explain*. The Performance Tasks at the end of every unit make sure students are able to combine procedural knowledge and conceptual understanding.

- The teacher-led Mathematical Discourse feature in the *Ready* lessons guides collaborative reasoning and the exchange of ideas and mathematical arguments. Lessons also provide error analysis exercises that ask students to examine a fictional student's wrong answer. There are also multiple opportunities throughout each lesson to explain and communicate reasoning.
- With the rigor to teach and assess the CCSS, *Ready Common Core* Depth of Knowledge (DOK) item distributions are based on item specifications from Smarter Balanced and were evaluated using the Smarter Balanced Cognitive Rigor Matrix. There is a natural progression within the *Ready* lessons that aligns DOK levels with the standards (analyzing, integrating, synthesizing).
- The *Practice and Problem Solving Book*—which extends learning with activities and games that provide repeated opportunities for students to develop understanding and fluency of key skills and concepts—can be used for independent practice in class, after school, or at home. A family letter for every lesson helps parents or caregivers understand the content and participate in the lesson activity with their child. Rigorous performance tasks ask students to integrate concepts and skills from multiple standards within the unit to solve multi-step problems, and computation practice worksheets at the end of the book require students to demonstrate procedural fluency.

- For grades 6–8, *Ready* provides rigorous instruction on the Common Core Math Standards and develops mathematical reasoning through lessons that use real-world problem solving as instruction—embedding the Standards for Mathematical Practice to help students develop habits of mind.
- *i-Ready Diagnostic* computer-adaptive assessments collect a broad spectrum of data on students' abilities, identify areas where learners are struggling, measure growth across each student's K-12 career, and prescribe an instructional path that includes explicit next steps for teacher-led and online instruction.
- *Ready Assessments* (print) and *i-Ready Diagnostic* (online) prepare students for more complex statewide assessments with technology-enhanced items, full-length practice tests, and interim assessments that include performance tasks.
- The online, fixed-form *i-Ready Standards Mastery* assessments for grades 2–8 provide targeted insight into each student's mastery of individual, grade-level standards through a blend of constructed-response, open-ended response, and selected-response items plus a broad range of media with embedded audio, video, and imagery.

The comprehensive *Ready Teacher Resource Book* supports teachers of all experience levels with point-of-impact professional learning—every page delivers critical background knowledge (including the Common Core learning progression and prerequisite skills). Throughout, the guide embeds best-practice teaching tips—such as integrating questions to lead meaningful classroom discussions, interactive listening and media activities to encourage real-world connections, and opportunities for students to explain their thinking and demonstrate their understanding of concepts—and explicit guidance on diagnosing student needs and differentiating instruction for a diverse range of learners (including English language learners) and learning styles.

Ready® Common Core Mathematics

- **Grade 7**
  - **Strengths**:
    - The overall strength of these materials is the commitment to encouraging the kind of thinking and work that is different in the CCSS. Getting away from an emphasis on rote procedures and instead placing more emphasis on conceptual understanding by asking students to think and respond to thoughtful questions and posing questions without obvious answers. The hands-on activities are easy to implement as they often use common classroom supplies like paper or cutting paper.
  - **Weaknesses**:
    - A weakness is that the material sometimes does not provide enough of the skill-based practice, that procedural fluency piece; it is there, just not as balanced it seems. Materials are in a consumable workbook format which may be a significant cost. The series also states that Professional Development is a requirement (at a cost).
  - **Key Features:** Curriculum Associates' solution is research-based and proven to yield measurable improvements in students' performance against the more challenging Common Core State Standards (CCSS). Combining valid and reliable assessment, rigorous core instruction, and meaningful practice, intervention, and enrichment for those who need it, this approach includes ***Ready Common Core* and *i-Ready Diagnostic & Instruction***:
    - Diagnose: Identify student needs at the sub-skill level, based on the expectations of the Common Core and Idaho state standards with the computer-adaptive *i-Ready Diagnostic* assessment (three times each academic year—beginning, mid, and end).
    - Whole-class instruction: Use *Ready Common Core print materials* as the core day-to-day mathematics curriculum.
    - Differentiate: Use *i-Ready Diagnostic* real-time reports to identify specific *i-Ready* and *Ready Common Core* resources and lessons for individual and small group intervention, plus instructional rotations.
    - Independent instruction, practice, and homework: Use the *Practice and Problem Solving Book and i-Ready Instruction.*
    - Progress monitoring: Track student progress via *Ready Assessments* and *i-Ready's* web-based diagnostic, interim growth monitoring, embedded progress monitoring, and standards mastery assessments.

Key features of these programs are summarized in the list below.

- *Ready Common Core* is a rigorous, on-grade level instruction and practice program for mathematics that fully prepares students for the Idaho Core State Standards for mathematics. Highly supportive for students, *Ready* also provides teachers of all backgrounds and experience levels with step-by-step, point-of-use professional development to teach the standards most effectively.
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    - **Application:** Unique to the Common Core, application standards are represented by tasks. In general, in order to complete these tasks, students must use both procedural knowledge and conceptual understanding.

  The *Ready* program addresses all three of the multiple representations buckets. Both the Develop Skills and Strategies lessons and the Focus on Math Concepts lessons use language such as *solve, identify*, and *use*, while the Focus on Math Concepts lessons encourage students to *understand* and *explain*. The Performance Tasks at the end of every unit make sure students are able to combine procedural knowledge and conceptual understanding.

- The teacher-led Mathematical Discourse feature in the *Ready* lessons guides collaborative reasoning and the exchange of ideas and mathematical arguments. Lessons also provide error analysis exercises that ask students to examine a fictional student's wrong answer. There are also multiple opportunities throughout each lesson to explain and communicate reasoning.
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- *Ready Assessments* (print) and *i-Ready Diagnostic* (online) prepare students for more complex statewide assessments with technology-enhanced items, full-length practice tests, and interim assessments that include performance tasks.

- The online, fixed-form *i-Ready Standards Mastery* assessments for grades 2–8 provide targeted insight into each student's mastery of individual, grade-level standards through a blend of constructed-response, open-ended response, and selected-response items plus a broad range of media with embedded audio, video, and imagery.

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Ready® Common Core Mathematics

- **Grade 8**
  - **Strengths**:
    - These materials commit to encouraging the kind of thinking and work that is different in the Common Core standards. Getting away from an emphasis on rote procedure and instead placing more emphasis on conceptual understanding by asking students to think and respond to thoughtful questions and posing questions without obvious answers. The hands on activities are easy to implement as they often use common classroom supplies like paper or cutting paper. New teachers would find this to be a good resource. The i-Ready and teacher toolbox are useful online components. The Diagnostic test would be very useful to assess student grade level.
  - **Weaknesses**:
    - The consumable workbook format may be costly. The materials state that Professional Development is a requirement (at a cost). The material sometimes does not provide enough of the skill based practice (procedural fluency piece); it is there, just not as balanced
  - **Key Features:** Curriculum Associates' solution is research-based and proven to yield measurable improvements in students' performance against the more challenging Common Core State Standards (CCSS). Combining valid and reliable assessment, rigorous core instruction, and meaningful practice, intervention, and enrichment for those who need it, this approach includes ***Ready Common Core* and *i-Ready Diagnostic & Instruction***:
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teaching tips—such as integrating questions to lead meaningful classroom discussions, interactive listening and media activities to encourage real-world connections, and opportunities for students to explain their thinking and demonstrate their understanding of concepts—and explicit guidance on diagnosing student needs and differentiating instruction for a diverse range of learners (including English language learners) and learning styles.

Curriculum Associates Substitution

Ready® Common Core Mathematics

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Key features of these programs are summarized in the list below.

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- Specifically designed and developed for the Common Core, *Ready Common Core* and *i-Ready Diagnostic & Instruction* reflect the Common Core Publishers' Criteria, learning progression documents, and the guidance from the Smarter Balanced Assessment Consortium. The solution provides print and online resources (including interactive whiteboard lessons) to differentiate instruction for students across the performance spectrum.
- The *Ready Mathematics* Student Books contain two types of lessons—concept and skills lessons. The "Focus on Math Concepts" lessons encourage students to pause from the procedural and just concentrate on the conceptual, while the "Develop Skills and Strategies" lessons build students' fluency by leading students to develop, practice, and apply new skills to solve problems.
- The *Ready Mathematics* Student Books expose students to multiple representations—to measure whether or not students have gained a deep understanding of a mathematical concept, assessment items must include multiple representations. EngageNY.org specifies three "buckets" of multiple representations:

- **Procedural Skills:** These apply to standards that reference verbs such as *compute, solve, identify, interpret, use, make,* and *find solutions*. Procedural representations are most often multiple-choice questions that require students to apply and identify mathematical processes in various ways.
- **Conceptual Understanding:** These representations use verbs such as *understand, explain, represent,* and *describe* when applied to standards, which results in students having to combine mathematical practices.
- **Application:** Unique to the Common Core, application standards are represented by tasks. In general, in order to complete these tasks, students must use both procedural knowledge and conceptual understanding.

The *Ready* program addresses all three of the multiple representations buckets. Both the Develop Skills and Strategies lessons and the Focus on Math Concepts lessons use language such as *solve, identify*, and *use*, while the Focus on Math Concepts lessons encourage students to *understand* and *explain*. The Performance Tasks at the end of every unit make sure students are able to combine procedural knowledge and conceptual understanding.

- The teacher-led Mathematical Discourse feature in the *Ready* lessons guides collaborative reasoning and the exchange of ideas and mathematical arguments. Lessons also provide error analysis exercises that ask students to examine a fictional student's wrong answer. There are also multiple opportunities throughout each lesson to explain and communicate reasoning.
- With the rigor to teach and assess the CCSS, *Ready Common Core* Depth of Knowledge (DOK) item distributions are based on item specifications from Smarter Balanced and were evaluated using the Smarter Balanced Cognitive Rigor Matrix. There is a natural progression within the *Ready* lessons that aligns DOK levels with the standards (analyzing, integrating, synthesizing).
- The *Practice and Problem Solving Book*—which extends learning with activities and games that provide repeated opportunities for students to develop understanding and fluency of key skills and concepts—can be used for independent practice in class, after school, or at home. A family letter for every lesson helps parents or caregivers understand the content and participate in the lesson activity with their child. Rigorous performance tasks ask students to integrate concepts and skills from multiple standards within the unit to solve multi-step problems, and computation practice worksheets at the end of the book require students to demonstrate procedural fluency.
- For grades 6–8, *Ready* provides rigorous instruction on the Common Core Math Standards and develops mathematical reasoning through lessons that use real-world problem solving as instruction—embedding the Standards for Mathematical Practice to help students develop habits of mind.
- *i-Ready Diagnostic* computer-adaptive assessments collect a broad spectrum of data on students' abilities, identify areas where learners are struggling, measure growth across each student's K-12 career, and prescribe an instructional path that includes explicit next steps for teacher-led and online instruction.
- *Ready Assessments* (print) and *i-Ready Diagnostic* (online) prepare students for more complex statewide assessments with technology-enhanced items, full-length practice tests, and interim assessments that include performance tasks.
- The online, fixed-form *i-Ready Standards Mastery* assessments for grades 2–8 provide targeted insight into each student's mastery of individual, grade-level standards through a blend of constructed-response, open-ended response, and selected-response items plus a broad range of media with embedded audio, video, and imagery.

The comprehensive *Ready Teacher Resource Book* supports teachers of all experience levels with point-of-impact professional learning—every page delivers critical background knowledge (including the Common Core learning progression and prerequisite skills). Throughout, the guide embeds best-practice teaching tips—such as integrating questions to lead meaningful classroom discussions, interactive listening and media activities to encourage real-world connections, and opportunities for students to explain their thinking and demonstrate their understanding of concepts—and explicit guidance on diagnosing student needs and differentiating instruction for a diverse range of learners (including English language learners) and learning styles.

Ready® Common Core Mathematics

- **Grade 7**
  - **Strengths**:
    - The overall strength of these materials is the commitment to encouraging the kind of thinking and work that is different in the CCSS. Getting away from an emphasis on rote

procedures and instead placing more emphasis on conceptual understanding by asking students to think and respond to thoughtful questions and posing questions without obvious answers. The hands-on activities are easy to implement as they often use common classroom supplies like paper or cutting paper.

- **Weaknesses**:
  - A weakness is that the material sometimes does not provide enough of the skill-based practice, that procedural fluency piece; it is there, just not as balanced it seems. Materials are in a consumable workbook format which may be a significant cost. The series also states that Professional Development is a requirement (at a cost).
- **Key Features:** Curriculum Associates' solution is research-based and proven to yield measurable improvements in students' performance against the more challenging Common Core State Standards (CCSS). Combining valid and reliable assessment, rigorous core instruction, and meaningful practice, intervention, and enrichment for those who need it, this approach includes ***Ready Common Core* and *i-Ready Diagnostic & Instruction***:
  - Diagnose: Identify student needs at the sub-skill level, based on the expectations of the Common Core and Idaho state standards with the computer-adaptive *i-Ready Diagnostic* assessment (three times each academic year—beginning, mid, and end).
  - Whole-class instruction: Use *Ready Common Core print materials* as the core day-to-day mathematics curriculum.
  - Differentiate: Use *i-Ready Diagnostic* real-time reports to identify specific *i-Ready* and *Ready Common Core* resources and lessons for individual and small group intervention, plus instructional rotations.
  - Independent instruction, practice, and homework: Use the *Practice and Problem Solving Book and i-Ready Instruction.*
  - Progress monitoring: Track student progress via *Ready Assessments* and *i-Ready's* web-based diagnostic, interim growth monitoring, embedded progress monitoring, and standards mastery assessments.

Key features of these programs are summarized in the list below.

- *Ready Common Core* is a rigorous, on-grade level instruction and practice program for mathematics that fully prepares students for the Idaho Core State Standards for mathematics. Highly supportive for students, *Ready* also provides teachers of all backgrounds and experience levels with step-by-step, point-of-use professional development to teach the standards most effectively.
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The *Ready* program addresses all three of the multiple representations buckets. Both the Develop Skills and Strategies lessons and the Focus on Math Concepts lessons use language such as *solve, identify*, and *use*, while the Focus on Math Concepts lessons encourage students to *understand* and *explain*. The Performance Tasks at the end of every unit make sure students are able to combine procedural knowledge and conceptual understanding.

- The teacher-led Mathematical Discourse feature in the *Ready* lessons guides collaborative reasoning and the exchange of ideas and mathematical arguments. Lessons also provide error analysis exercises that ask students to examine a fictional student's wrong answer. There are also multiple opportunities throughout each lesson to explain and communicate reasoning.
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Ready® Common Core Mathematics

- **Grade 8**
  - **Strengths**:
    - These materials commit to encouraging the kind of thinking and work that is different in the Common Core standards. Getting away from an emphasis on rote procedure and instead placing more emphasis on conceptual understanding by asking students to think and respond to thoughtful questions and posing questions without obvious answers. The hands-on activities are easy to implement as they often use common classroom supplies like paper or cutting paper. New teachers would find this to be a good resource. The i-Ready and teacher toolbox are useful online components. The Diagnostic test would be very useful to assess student grade level.
  - **Weaknesses**:

- The consumable workbook format may be costly. The materials state that Professional Development is a requirement (at a cost). The material sometimes does not provide enough of the skill-based practice (procedural fluency piece); it is there, just not as balanced.

- **Key Features:** Curriculum Associates' solution is research-based and proven to yield measurable improvements in students' performance against the more challenging Common Core State Standards (CCSS). Combining valid and reliable assessment, rigorous core instruction, and meaningful practice, intervention, and enrichment for those who need it, this approach includes ***Ready Common Core* and *i-Ready Diagnostic & Instruction***:
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Great Minds

Eureka Math – A Story of Ratios

- **Grade 6**
  - **Notes**:
    - The curriculum is very rigorous. It would be best to adopt K-6 so students have the foundation they need to be successful in subsequent grades.
  - **Key Features:** The Eureka Math elementary mathematics curriculum, A Story of Ratio's®, offers print and digital components for teachers and students, as well as live and online professional development for teachers and support resources for parents. Spanish translations of student-facing materials will be available to support the 2016-2017 school year.

Eureka Math – A Story of Ratios

- **Grade 7**
  - **Strengths**:
    - Curriculum flows and is easy to follow

        - Discussion opportunities are engaging to students and promote student participation
        - Standards are thoroughly addressed throughout the curriculum
        - Student exercises reinforce conceptual understanding
        - Great conceptual knowledge activities
        - Deep knowledge and understanding
        - Students will get a deep understanding of mathematics
    - **Weaknesses**:
        - There are minimal ELL supports
        - The text is not visually engaging
        - Sometimes the skills practice is too intense
    - **Key Features:** The Eureka Math elementary mathematics curriculum, A Story of Ratio's®, offers print and digital components for teachers and students, as well as live and online professional development for teachers and support resources for parents. Spanish translations of student-facing materials will be available to support the 2016-2017 school year.

Eureka Math – A Story of Ratios

- **Grade 8**
    - **Strengths**:
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        - Discussion opportunities are engaging to students and promote student participation
        - Standards are thoroughly addressed throughout the curriculum
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        - There are minimal ELL supports
        - The text is not visually engaging
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McGraw-Hill School Education

Glencoe Math Course 1

- **Grade 6**
    - **Notes**:
        - This is a comprehensive program with many ancillary products. Consumable text needs more work space for student problem-solving.
    - **Key Features:**
        - The organization of the *Glencoe Math* program was purposefully designed to support a balance between the development of conceptual understandings, the need for instilling proficiency, and the desire to make the mathematics rich and meaningful to every student, so rigor is applied daily as students' model, practice and apply concepts. *Glencoe Math* features a unique "Walk-Around Teacher Edition" that contains everything you need in the classroom- it is designed to be smaller and lighter and easy to carry while teaching. This paired with the comprehensive online Teacher resources provides the teacher everything

they need to plan, prepare, teach, make assignments, and stay organized in the classroom.

Glencoe Math Course 2

- **Grade 7**
  - **Strengths**:
    - CCSS & MP clearly evident
    - Many teaching strategies
    - Many problem types
    - Many assessment resources
    - Differentiation
  - Weaknesses:
    - Teacher Edition-pages very flimsy & tear out easily
    - Student Edition- workbook format so pages are perforated & tear out easily
    - Excessive amount of lessons in supporting clusters
  - **Key Features:**
    - The organization of the *Glencoe Math* program was purposefully designed to support a balance between the development of conceptual understandings, the need for instilling proficiency, and the desire to make the mathematics rich and meaningful to every student, so rigor is applied daily as students' model, practice and apply concepts. *Glencoe Math* features a unique "Walk-Around Teacher Edition" that contains everything you need in the classroom- it is designed to be smaller and lighter and easy to carry while teaching. This paired with the comprehensive online Teacher resources provides the teacher everything they need to plan, prepare, teach, make assignments, and stay organized in the classroom.

Glencoe Math Course 3

- **Grade 8**
  - **Strengths**:
    - Very good vocabulary and does a great job of using and teaching the mathematical practices
    - Is common core aligned and the countdown to SBAC is a very nice resource
    - The performance tasks are a very good resource to help the students represent the material in different ways
    - The teacher's manual helps facilitate a mix of instructional approaches
  - **Weaknesses**:
    - Many times 7th grade standards over shadow the 8th grade standards. This happens in Chapter 5 with lessons 4-6 focusing on standard deviation (which should not even be introduced yet). Also Chapter 8 is half volume and half surface area. Surface area is not a 7th grade CCSS.
    - The consumable workbook format may be costly
    - The materials state that Professional Development is a requirement (at a cost). But after reviewing the material we don't think it would be necessary.
  - **Key Features:**
    - The organization of the *Glencoe Math* program was purposefully designed to support a balance between the development of conceptual understandings, the need for instilling proficiency, and the desire to make the mathematics rich and meaningful to every student, so rigor is applied daily as students' model, practice and apply concepts. *Glencoe Math*

features a unique “Walk-Around Teacher Edition” that contains everything you need in the classroom- it is designed to be smaller and lighter and easy to carry while teaching. This paired with the comprehensive online Teacher resources provides the teacher everything they need to plan, prepare, teach, make assignments, and stay organized in the classroom.

Glencoe Math Accelerated

- **Grade 7**
  - **Strengths**:
    - Teacher resources
    - Differentiated instruction
    - Visually appealing
    - Interactive Student Guide is an excellent resource as well for scaffolding student learning
  - **Weaknesses**:
    - Paper quality of the teacher’s edition (pages tear easily)
    - Perforation of student guide is not best because the students keep the journal (guide) throughout as a resource
    - Districts need to be aware that the Interactive Student Guides are consumable and need to be replaced yearly, however they are necessary.
  - **Key Features:**
    - The organization of the *Glencoe Math* program was purposefully designed to support a balance between the development of conceptual understandings, the need for instilling proficiency, and the desire to make the mathematics rich and meaningful to every student, so rigor is applied daily as students’ model, practice and apply concepts. *Glencoe Math* features a unique “Walk-Around Teacher Edition” that contains everything you need in the classroom- it is designed to be smaller and lighter and easy to carry while teaching. This paired with the comprehensive online Teacher resources provides the teacher everything they need to plan, prepare, teach, make assignments, and stay organized in the classroom.

Pearson Prentice Hall

Pearson Digits

- **Grade 6**
  - **Notes:**
    - Primarily and internet-based online instruction
  - **Strengths**:
    - Highly engaging
    - Technology integration
    - Differentiation
    - Access to ELL support
  - **Weaknesses**:
    - No explicit instruction for group/peer work
    - Hard copies of HW available for students without online access.
  - **Key Features:** ***digits*** is based on critical foundational research to achieve the following key features:

- Simplify for the Teacher: Teachers can tap into the resource they need, exactly when they need it. Based on the interACTIVE Learning Cycle™ of assessment, instruction, and practice, ***digits*** provides prevention and enrichment paths along with individualized study plans, reporting, and auto-scored homework that saves time usually lost to administrative tasks.
- Optimize Effective Time on Task: With ***digits***, time spent grading or reviewing homework for the whole class is instead open for teaching and giving attention to students. Readiness assessments and auto-scored homework immediately identify students' understanding of content so teachers can focus on individual learners' needs during class.
- Personalize for the Student: Today's students are natives in the digital world. ***digits*** is a one-of-kind program that will keep learners motivated using technology to provide them with individualized learning paths and self-guided exploration options. Learning math the ***digits*** way is highly-visual, fun, and engaging.
- Trusted Authorship: Representing a diverse background and many areas of expertise such as visual learning, technology, intervention and ELL, the ***digits*** author team is comprised of Pearson enVisionMATH™ authors as well as a cadre of noted advisors.

Pearson Digits

- **Grade 7**
  - **Notes:**
    - This is an online curriculum. A computer and projector are needed/essential. Student online access is not required, but is very vital in utilizing the curriculum to its fullest potential. Strengths: Very engaging curriculum for middle school age because it is an online based curriculum containing animations, interactive tools, and videos. Differentiation is made easy with online tools and testing.
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Pearson Digits, Accelerated

- **Grade 7**
  - **Strengths**:
    - The major works of both 7th and 8th grade are the entire focus and framework of the accelerated text

        - Students have an interactive way of engaging in the standards that could work very well for visual learners. The strong visual design of the program supports those types of learners.
        - The program has multiple digital manipulatives for students to use
    - **Weaknesses**:
        - If the Ebook isn't available, the teacher's manual isn't enough to be successful with the program. All assessments, objectives for the lesson, and overview of the lesson are on Ebook only.
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Pearson Digits

- **Grade 8**
    - **Strengths**:
        - Digits is an online program for 8th grade math. The program includes the CCSSM Standards for 8th grade mathematics and includes work on the domains and clusters for the major work of the grade. The online work is engaging and interactive and includes opportunities for students to progress in their learning. The teacher's online guide provides information for differentiation, ELL learners and middle to low level learners.
    - **Weakness**:
        - The digits program is designed to be an online learning program; students need to have computer access to be successful in the program. The program has few connections between domains, the clusters have a few connections, so is missing key connections between domains. Digits is to be an online program so could be frustrating for students that have low computer skills.
    - **Key Features:** ***digits*** is based on critical foundational research to achieve the following key features:
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Pearson Connected Mathematics 3

- **Grade 6**
  - **Strengths**:
    - High level of engagement for students
    - Tests focus on open ended questions leading to higher conceptual understanding
    - ACE problems provide a variety of opportunities to meet the needs of diverse students
    - ELL supports throughout (Spanish versions available)
    - Very teacher friendly: written in a way to guide teachers through teaching process
    - Activity based and discovery learning
    - Good vertical alignment connections across mathematical domains
    - A high degree of cultural diversity in the images, names, and mathematical situations presented in the materials
    - Different levels of student ability are addressed and considered to ensure access for all
    - The materials include extensive background in ensuring success with implementation including building and strengthening teacher's mathematical background, physical classroom set up, classroom culture, and even how to work with substitutes (guest teachers)
  - **Key Features:**
    - The goal of Connected Mathematics 3 is to help students develop mathematical knowledge, conceptual understanding, and procedural skills, along with an awareness of the rich connections between math topics—across grades and across Common Core content areas. Through the "Launch-Explore-Summarize" model, students investigate and solve problems that develop rigorous higher-order thinking skills and problem-solving strategies. Curriculum development for CMP3 has been guided by an important mathematical idea: All students should be able to reason and communicate proficiently in mathematics. They should have knowledge of and skill in the use of the vocabulary, forms of representation, materials, tools, techniques, and intellectual methods of mathematics. This includes the ability to define and solve problems with reason, insight, inventiveness, and technical proficiency. CMP3 uses technology to help teachers implement with fidelity, thus raising student achievement. Easy-to-use mobile tools help with classroom management and capture student work on the go. ExamView® delivers a full suite of assessment tools, and MathXL® provides individualized skills practice. 21st century social networking technology connects CMP3 teachers, while students benefit from interactive digital student pages that allow for instantaneous sharing and effective group work.

Pearson Connected Mathematics 3

- **Grade 7**
  - **Strengths**:
    - High level of engagement for students

        - Tests focus on open ended questions leading to higher conceptual understanding
        - ACE problems provide a variety of opportunities to meet the needs of diverse students
        - ELL supports throughout (Spanish versions available)
        - Very teacher friendly: written in a way to guide teachers through teaching process
        - Activity based and discovery learning
        - Good vertical alignment connections across mathematical domains
        - Great conceptual learning opportunities
    - **Weaknesses:**
        - Will be a challenging curriculum, but will be worth it.
    - **Key Features:**
        - The goal of Connected Mathematics 3 is to help students develop mathematical knowledge, conceptual understanding, and procedural skills, along with an awareness of the rich connections between math topics—across grades and across Common Core content areas. Through the "Launch-Explore-Summarize" model, students investigate and solve problems that develop rigorous higher-order thinking skills and problem-solving strategies. Curriculum development for CMP3 has been guided by an important mathematical idea: All students should be able to reason and communicate proficiently in mathematics. They should have knowledge of and skill in the use of the vocabulary, forms of representation, materials, tools, techniques, and intellectual methods of mathematics. This includes the ability to define and solve problems with reason, insight, inventiveness, and technical proficiency. CMP3 uses technology to help teachers implement with fidelity, thus raising student achievement. Easy-to-use mobile tools help with classroom management and capture student work on the go. ExamView® delivers a full suite of assessment tools, and MathXL® provides individualized skills practice. 21st century social networking technology connects CMP3 teachers, while students benefit from interactive digital student pages that allow for instantaneous sharing and effective group work.

Pearson Connected Mathematics 3

- **Grade 8**
    - **Strengths**:
        - Teacher resources provide ideas and teaching examples to integrate math practices into lessons. The lessons for the students provide a wide degree of difficulty and expect all students to master clusters in standards.
        - Gifted students are challenged with advanced thinking problems. Visually pleasing pages in books provide the right amount of text per page.
    - **Weaknesses:**
        - Initial problems may be such that they can cause exacerbation with the students and cause them to quit before ideas and concepts are presented.
    - **Key Features:**
        - The goal of Connected Mathematics 3 is to help students develop mathematical knowledge, conceptual understanding, and procedural skills, along with an awareness of the rich connections between math topics—across grades and across Common Core content areas. Through the "Launch-Explore-Summarize" model, students investigate and solve problems that develop rigorous higher-order thinking skills and problem-solving strategies. Curriculum development for CMP3 has been guided by an important mathematical idea: All students should be able to reason and communicate proficiently in mathematics. They should have knowledge of and skill in the use of the vocabulary, forms of representation, materials, tools, techniques, and intellectual methods of mathematics. This includes the ability to define and solve problems with reason, insight, inventiveness,

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Pearson Connected Mathematics 3, Algebra 1

- **Grade 8**
  - **Notes:**
    - This curriculum meets Appendix A 8th grade accelerated pathway requirements. It meets all high school algebra standards except A-APR. C.4, A-APR.D.6, and A-REI.A.2
  - **Strengths**:
    - Investigations of real world problems
    - Cooperative learning/activity based
    - Teacher resources
    - Engaging
    - Differentiation embedded throughout
  - **Weaknesses:**
    - Curriculum materials may seem a little overwhelming at first, but once there is an understanding of how it is set up, it flows smoothly.
  - **Key Features:**
    - The goal of Connected Mathematics 3 is to help students develop mathematical knowledge, conceptual understanding, and procedural skills, along with an awareness of the rich connections between math topics—across grades and across Common Core content areas. Through the "Launch-Explore-Summarize" model, students investigate and solve problems that develop rigorous higher-order thinking skills and problem-solving strategies. Curriculum development for CMP3 has been guided by an important mathematical idea: All students should be able to reason and communicate proficiently in mathematics. They should have knowledge of and skill in the use of the vocabulary, forms of representation, materials, tools, techniques, and intellectual methods of mathematics. This includes the ability to define and solve problems with reason, insight, inventiveness, and technical proficiency. CMP3 uses technology to help teachers implement with fidelity, thus raising student achievement. Easy-to-use mobile tools help with classroom management and capture student work on the go. ExamView® delivers a full suite of assessment tools, and MathXL® provides individualized skills practice. 21st century social networking technology connects CMP3 teachers, while students benefit from interactive digital student pages that allow for instantaneous sharing and effective group work.

SMc Curriculum, LLC

SMc Curriculum/Core Focus on Math, Stage 1

- **Grade 6**
  - **Notes:**
    - Very clearly aligned to the CCSS and Mathematical Practices
    - Multiple resources to practice major works
    - Much of teaching strategies and practices are left to teacher's expertise

        - Tiered worksheets for student learning/practice support
    - **Key Features:**
        - **Core Focus on Math** is a **middle school math curriculum** series which addresses the **Common Core State Standards** (CCSS) for grades 6, 7, 8 and the Compacted Grade 7-8 program. Core Focus on Math has three texts per grade level, each focusing on multiple clusters of standards in the Common Core and collectively addressing the complete grade level standards. Core Focus on Math addresses the three shifts of the Common Core State Standards: **FOCUS** – The content in Core Focus on Math focuses on the Priority Clusters in the Common Core State Standards as defined by Smarter Balanced Assessment Consortium. **COHERENCE** – Each book in the Core Focus on Math series connects vertically with standards at each grade level as well as makes connections within a grade level with appropriate topics. **RIGOR** – Core Focus on Math goes deep into the focus areas by teaching for conceptual understanding, procedural skill/fluency and application. Students are given opportunities to understand the "why" behind the mathematics, practice for procedural skill and apply the math in appropriate real-world setting.

SMc Curriculum/Core Focus on Math, Stage 2

- **Grade 7**
    - **Notes:**
        - Overall, this program has strengths in connecting to CCSS and practice standards using an easy to follow format. Instructionally, it lacks opportunities for student to persevere through problems and reason abstractly due to the step-by-step nature of the text's instruction.
    - **Key Features:**
        - **Core Focus on Math** is a **middle school math curriculum** series which addresses the **Common Core State Standards** (CCSS) for grades 6, 7, 8 and the Compacted Grade 7-8 program. Core Focus on Math has three texts per grade level, each focusing on multiple clusters of standards in the Common Core and collectively addressing the complete grade level standards. Core Focus on Math addresses the three shifts of the Common Core State Standards: **FOCUS** – The content in Core Focus on Math focuses on the Priority Clusters in the Common Core State Standards as defined by Smarter Balanced Assessment Consortium. **COHERENCE** – Each book in the Core Focus on Math series connects vertically with standards at each grade level as well as makes connections within a grade level with appropriate topics. **RIGOR** – Core Focus on Math goes deep into the focus areas by teaching for conceptual understanding, procedural skill/fluency and application. Students are given opportunities to understand the "why" behind the mathematics, practice for procedural skill and apply the math in appropriate real-world setting.

SMc Curriculum/Core Focus on Math, Stage 3

- **Grade 8**
    - **Specific areas of Strength**:
        - The amazing amount of material that the teacher has available at their disposal would be very valuable to the student
        - The organization for the teacher allows them to design a pace that fits into the calendar for the teacher
    - **Weaknesses**:
        - The material may overwhelm a teacher

- If the teacher had two years to use this material, he/she could design a program to address all students and standards

- **Key Features:**
  - **Core Focus on Math** is a **middle school math curriculum** series which addresses the **Common Core State Standards** (CCSS) for grades 6, 7, 8 and the Compacted Grade 7-8 program. Core Focus on Math has three texts per grade level, each focusing on multiple clusters of standards in the Common Core and collectively addressing the complete grade level standards. Core Focus on Math addresses the three shifts of the Common Core State Standards: **FOCUS** – The content in Core Focus on Math focuses on the Priority Clusters in the Common Core State Standards as defined by Smarter Balanced Assessment Consortium. **COHERENCE** – Each book in the Core Focus on Math series connects vertically with standards at each grade level as well as makes connections within a grade level with appropriate topics. **RIGOR** – Core Focus on Math goes deep into the focus areas by teaching for conceptual understanding, procedural skill/fluency and application. Students are given opportunities to understand the "why" behind the mathematics, practice for procedural skill and apply the math in appropriate real-world setting.

For Questions Contact

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