



# 9-12 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 2022-December 31, 2028

### GRADES 9-12

#### Amplify

##### Amplify Math

- **Algebra I**

- Strengths: The teacher edition has excellent resources for teachers to rely on to guide student learning. Problems and tasks in the student edition are easily accessible with clear directions. The language development is very strong. Every lesson has language objectives and content objects. There are good language development routines too. There are well written narratives that relate all material to real-life scenarios. They have good self-reflection pieces of both teachers and students. They have material for both remediation and extension. There is lots of practice for students. There are good assignments for all parts of the chapter. The exit tickets are strong. This curriculum is very strong at getting students to think critically in real world situations, but also has a good amount of procedural fluency practice.
- Weaknesses: Math practices are not specifically stated. There are few supports (most supports are teacher-directed) for students throughout the student editions. There are not many reminders of prior learning or hints for students to use to guide their work. There is very little parent communication or support.
- Key Features: Amplify Math is a core math curriculum for Grade 6–Algebra 1. Amplify Math is a problem-based curriculum, meaning students work through interesting, relevant problems and outline, defend, and potentially even revise their reasoning as they go. Lessons ask students to grapple with relevant and interesting problems and situations. The contexts make sense to them and play to their curious and competitive nature. Whether using the print or digital

lessons, teachers have easy-to-use tools that allow them insights into student thinking and opportunities to truly differentiate instruction.

The program includes:

- Engaging, discourse-rich math lessons that are easier for teachers to prepare for and teach, featuring streamlined and easy-to-follow “1, 2, 3 step” teacher guidance for each activity.
- Flexible, social problem-solving experiences—available both online and off—through our library of Amps. These are highly interactive digital lessons powered by Desmos technology that connect students to students and give teachers more control and better insights into student thinking.
- Real-time insights, data, and reporting that inform instruction. These include both classroom monitoring tools plus embedded and standalone assessments
- Storytelling and narrative elements that make the math real, relevant, and memorable

## Big Ideas

### Big Ideas Learning Math

- **Algebra I, Algebra II, Geometry**
  - Strengths:
    - Covers all Idaho Content Standards, including content and practice standards.
    - Online Materials are comprehensive and give students and teachers many options in learning the content
    - Textbook has many helpful tips for teachers in implementing the content and using different teaching strategies
    - Each lesson has helpful homework guides and DOK recommendations for exercises
    - The TE essentially includes built-in as-you-go PD on both content and pedagogy, focused on the Student Mathematical Practices and Mathematical Teaching Practices, and based on the most effective practices from Visible Learning research.
  - Weaknesses:
    - While MTSS supports and resources are provided, systemic MTSS is not defined

- While some supports are available multilingually, core materials are only available in English
    - Resources for students with disabilities exist, but guidance is limited to DOK and proficiency designations (emerging, proficient, advanced) for problems.
  - Other Notes: Lack of politicized gender or cultural distinctions makes this book reasonably sanitary and inclusive. Textbook language deliberately uses “you/your” to be inclusive.
  - Key Features: Idaho Math from Big Ideas Learning was written to the full intent and meaning of each of the Idaho Mathematics Content Standards, creating a coherent solution specifically for Idaho.
- The print and digital resources combined create a robust and engaging experience for teachers and students.

#### PRINT RESOURCES

- Student Edition: The consumable Student Edition contains every lesson and is the core print product. This is also available as the Dynamic Student Edition online.
- Teaching Edition: The Teaching Edition contains Laurie’s Notes, which is professional development at teachers’ fingertips. Also found online within the Dynamic Classroom, Laurie’s Notes include step-by-step guidance, discussion questions, common errors, item analyses, and more. This is an invaluable resource for teachers to use as they prepare and teach the lessons.
- Idaho Test Prep Workbook: The Idaho Test Prep Workbook contains quarterly course benchmark tests and two post-course tests. Question types will be similar to those found on the ISAT tests and will have components that are assignable online.

#### TECHNOLOGY RESOURCES

Key Technology Resources are listed below and more information about each can be found on attachment titled Additional Information for Idaho Brief Form under section Technology Resources.

- Dynamic Student Edition
- Dynamic Classroom
- Dynamic Assessment

## Carnegie Learning

### High School Math Solution

- **Integrated Math I-III**

- **Strengths:** Highlights math practices and provides ample opportunities for students to employ all 8 practices. Curriculum and lessons cover all math standards and conceptual categories. Lessons and homework provide multiple opportunities for students to practice and gain fluency. Lessons provide opportunities for group and partner work. Accompanying software enhances learning and provides even more support for students and teachers. MATHia is a good resource for students as it used artificial intelligence to level students and reach every student where they are at. It also gives teachers feedback on student progress. This program can remediate skills up to two years or it can extend skills and help students prepare for the ACT and the SAT.
- **Weaknesses:** There could be stronger activities for the kids who understand the material. They have some stretch activities for those who are working at a higher level. The vertical and horizontal alignment could be clearer. A chart with how this aligns with Integrated 2 and 3 would be helpful. The scope and sequence could be more clear with how each lesson aligns with the integrated curriculum as a whole.
- **Other Notes:** This curriculum includes multiraces. The whole curriculum is available in Spanish as well. MATHit can be used with Google Translate to reach other students as needed.
- **Key Features:** MATHbook Student Edition (print or digital)  
MATHbook is the consumable Student Edition text (also available in digital format) designed for students to work collectively with their peers to engage in active and effortful learning of mathematics. As they write in their book and work with the card sorts and tasks, they create artifacts that demonstrate their thinking and reasoning. Also available in Spanish.  
MATHia® Software (digital online)  
MATHia is companion software used alongside the MATHbook Student Edition. It is adaptive software that empowers students to become agents of their learning. As students work through the self-paced sequences, artificial intelligence provides them with the just-right amount of practice for each skill. It provides just-in-time support and tracks student progress to deliver the right content students need to become proficient with the mathematics. Also available in Spanish.

## High School Math Solutions

- **Algebra I**

- Strengths:

- The textbook is well organized. Concepts are broken down into modules. Modules consist of two to four topics.
- Concepts are aligned to standards, with a focus on Standards for Mathematical Practice, called “habits of mind.”
- Modules contain a “connections to prior learning” and “connections to future learning” as an aid to bridging ideas.
- Needed materials and supplies are clearly listed.
- Online access to the textbook.
- Problems are labeled as activities. The number of “problems” is not overwhelming.
- Key terms and learning goals are included for each lesson.
- Powerpoint and Google slides of all lessons.
- MATHia adaptive technology for use approximately twice a week to supplement the lessons and aid in student mastery.
- Progress monitoring in MATHia.
- Lesson structure and pacing guide to assist in planning and a reflections page.
- Teacher questions to activate student thinking.
- Students work collaboratively as well as individually. Students are often asked to explain their reasoning.
- Three phase instructional approach: engage, develop, demonstrate.
- Differentiation strategies for students who struggle and advanced learners. Common misconceptions are also highlighted.
- Positive supporting research is valid.
- Activities strive to develop mathematical thinking skills.
- Assignments and Family Guides are available online.

- Weaknesses:

- A few typos in MATHia (Two typos in approximately 50 activities).
- MATHia title does not specify the accompanying module.
- Cost for non-reusable testbooks.
- Two to three books are required for students and teachers.
- Pacing based on 177-182 usable school days. Likely challenging to adapt to realistic usable days, A/B schedules, and four-day school weeks.
- Lack of worked examples in the text for students to reference.
- Some materials were unavailable online (some PowerPoints, teacher implementation guides).

- Other Notes: Algebra I Pacing (182 days)
  - 100 sessions in the textbook, estimated to take approximately 45 minutes.
  - 52 sessions in MATHia
  - 30 sessions for assessment
- Key Features: MATHbook Student Edition (print or digital)
 

MATHbook is the consumable Student Edition text (also available in digital format) designed for students to work collectively with their peers to engage in active and effortful learning of mathematics. As they write in their book and work with the card sorts and tasks, they create artifacts that demonstrate their thinking and reasoning. Also available in Spanish.

MATHia® Software (digital online)

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    - Modules contain a “connections to prior learning” and “connections to future learning” as an aid to bridging ideas.
    - Needed materials and supplies are clearly listed.
    - Online access to the textbook.
    - Problems are labeled as activities. The number of “problems” is not overwhelming.
    - Key terms and learning goals are included for each lesson.
    - Powerpoint and Google slides of all lessons.
    - MATHia adaptive technology for use approximately twice a week to supplement the lessons and aid in student mastery.
    - Progress monitoring in MATHia.
    - Lesson structure and pacing guide to assist in planning and a reflections page.
    - Teacher questions to activate student thinking.

- Students work collaboratively as well as individually. Students are often asked to explain their reasoning.
- Three phase instructional approach: engage, develop, demonstrate.
- Differentiation strategies for students who struggle and advanced learners. Common misconceptions are also highlighted.
- Positive supporting research is valid.
- Activities strive to develop mathematical thinking skills.
- Assignments and Family Guides are available online.
- Weaknesses:
  - A few typos in MATHia (Two typos in approximately 50 activities).
  - MATHia title does not specify the accompanying module.
  - Cost for non-reusable textbooks.
  - Two to three books are required for students and teachers.
  - Pacing based on 177 usable school days. Likely challenging to adapt to realistic usable days, A/B schedules, and four-day school weeks.
  - Lack of worked examples in the text for students to reference.
  - Some materials were unavailable online (some PowerPoints, teacher implementation guides).
- Other Notes: Algebra II Pacing (177 days)
  - 105 sessions in the textbook, estimated to take approximately 45 minutes.
  - 42 sessions in MATHia
  - 30 sessions for assessment
- Key Features: MATHbook Student Edition (print or digital)
 

MATHbook is the consumable Student Edition text (also available in digital format) designed for students to work collectively with their peers to engage in active and effortful learning of mathematics. As they write in their book and work with the card sorts and tasks, they create artifacts that demonstrate their thinking and reasoning. Also available in Spanish.

MATHia® Software (digital online)

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## High School Math Solutions

- **Geometry**

- Strengths:

- The textbook is well organized. Concepts are broken down into modules. Modules consist of two to four topics.
- Concepts are aligned to standards, with a focus on Standards for Mathematical Practice, called “habits of mind.”
- Modules contain a “connections to prior learning” and “connections to future learning” as an aid to bridging ideas.
- Needed materials and supplies are clearly listed.
- Online access to the textbook.
- Problems are labeled as activities. The number of “problems” is not overwhelming.
- Key terms and learning goals are included for each lesson.
- Powerpoint and Google slides of all lessons.
- MATHia adaptive technology for use approximately twice a week to supplement the lessons and aid in student mastery.
- Progress monitoring in MATHia.
- Lesson structure and pacing guide to assist in planning and a reflections page.
- Teacher questions to activate student thinking.
- Students work collaboratively as well as individually. Students are often asked to explain their reasoning.
- Three phase instructional approach: engage, develop, demonstrate.
- Differentiation strategies for students who struggle and advanced learners. Common misconceptions are also highlighted.
- Positive supporting research is valid.
- Activities strive to develop mathematical thinking skills.
- Assignments and Family Guides are available online.

- Weaknesses:

- A few typos in MATHia (Two typos in approximately 50 activities).
- MATHia title does not specify the accompanying module.
- Cost for non-reusable testbooks.
- Two to three books are required for students and teachers.
- Pacing based on 179 usable school days. Likely challenging to adapt to realistic usable days, A/B schedules, and four-day school weeks.
- Lack of worked examples in the text for students to reference.
- Some materials were unavailable online (some PowerPoints, teacher implementation guides).

- Other Notes: Geometry Pacing (179 days)
  - 107 sessions in the textbook, estimated to take approximately 45 minutes.
  - 42 sessions in MATHia
  - 30 sessions for assessment
- Key Features: MATHbook Student Edition (print or digital)
 

MATHbook is the consumable Student Edition text (also available in digital format) designed for students to work collectively with their peers to engage in active and effortful learning of mathematics. As they write in their book and work with the card sorts and tasks, they create artifacts that demonstrate their thinking and reasoning. Also available in Spanish.

MATHia® Software (digital online)

MATHia is companion software used alongside the MATHbook Student Edition. It is adaptive software that empowers students to become agents of their learning. As students work through the self-paced sequences, artificial intelligence provides them with the just-right amount of practice for each skill. It provides just-in-time support and tracks student progress to deliver the right content students need to become proficient with the mathematics. Also available in Spanish.

## CPM

### Core Connections

- **Integrated I-III**
  - Strengths: This program is very well laid out with appropriate progression from presenting skills to mastering those skills. There is a lot of student discovery and student engagement. The way the concepts are presented and interwoven with each other provides a natural progression for student achievement. Most of the tasks have an entry level for students that struggle, as well as rigorous tasks that will challenge the honors students. The teacher materials are very helpful. They provide ideas of how to open each lesson and how to progress through each lesson. They suggest teaching strategies and probing questions to ask individual students, or the class as a whole, to enrich student thinking.
  - Weaknesses: There aren't very many illustrations, and when there are, they are mostly decorative. There aren't a lot of extra accessible resources, other than the parent guide, to provide extra practice. However, if students are doing their homework daily, they shouldn't need extra practice. There are a lot of manipulatives that would need to be purchased to make this curriculum as rich

as it is intended to be. Quite a few of those things would need to be re-purchased at the beginning of each year as they are consumables that the students would end up completely using by the end of the school year (colored pencils, tape, patty paper...)

- Other Notes: This program is very heavy in problem-based learning and collaborative learning. It is intended to be taught just as it is written, using the teacher guided notes. It is difficult to turn this into a direct-instruction teaching program. Homework is a must in order to achieve the spiral review in a way that students can show mastery of concepts. Schools that use this program would have to establish a culture of making sure students complete their homework. There are not any review days as students are expected to be constantly reviewing concepts through completion of homework.

- Key Features: The mathematical content of the CPM Core Connections curriculum is carefully aligned with the content standards. The CPM standards correlation documents indicate which standards a particular lesson is developing. There are no lessons in the documents that do not directly address the conceptual development or mastery of a standard. Coherence and connections have always been a core and integral part of CPM. Because of CPM's broad experience and long history with making connections between mathematical topics and developing mathematics in logical "storylines," coherence is deeply and seamlessly interwoven into the fabric of the curriculum. CPM has always emphasized deep conceptual understand over mnemonics and shortcuts, and has never subscribed to isolating standards as a basis for creating lessons.

CPM courses balance procedural fluency (algorithms and basic skills), deep conceptual understanding, strategic competence (problem solving), and adaptive reasoning (application and extension). CPM is known for its coherence in developing deep conceptual understanding. While many CPM problems involve everyday situations, practice with basic skills and procedures are interwoven in the daily lessons and the homework (mixed, spaced practice). Fluency with basic skills and procedures are emphasized in the Connections series.

Features include: Complimentary Professional Development, eTools, Homework Help, Learning Logs, Stoplight Problems, Math Notes, Parent Guide, Resource Pages, Toolkits, Weekly Tips, Checkpoints, Key Vocabulary Development, Formative Assessment opportunities, Error Analysis, Puzzle Investigator Problems, Mathcasts for teachers, SMART Board Files, Statistics Supplement, Lesson Closure strategies, Chapter Closure strategies.

## Core Connections

- **Algebra I, Algebra II, Geometry**

- **Strengths:** Teacher resources contain multiple strategies, preparation information, guides for instruction, and professionalism. The parent guide for at home help provides a key piece of integrating home and community with the educational process. Prepared clear lesson plans and closure options reduce teacher planning time to allow more in-depth preparation and assessment. Team activities for small groups are well developed and implementation guides are included. The teacher guides are informational, professional, and easy to use in practice. Student material is straight-forward and without distractions or fluff. Multiple methods for assessing understanding are developed and ready to use from the teacher materials. Balanced material between conceptual understanding and procedural fluency with a keen focus on communicating mathematics in various ways. Mathematical discourse is encouraged and laid out for the teacher very well.
- **Weaknesses:** Digital materials are not editable except for the summative assessments being buildable from a test bank. Assessments ready to be given and graded electronically for diagnostic, interim, screening, and progress monitoring are not available. These kinds of assessments rely on the teacher to develop or do informally and subjectively. Increase in intensity frequency and duration were somewhat evident in the spiral nature of the missed spaced practice, but could be stronger. Aesthetically the materials lack color and are heavily in text. The images, whether graphs, tables, pictures, or other, are adequate and clear but without much attention-grabbing detail.
- **Other Notes:** The materials are clear, easy to use, and have a lot of teacher material that would save teachers time in preparation. There is clear and helpful online material as ebooks, eworkspace, and etools. The parent support materials add a significant component to improving parent and community involvement in education.
- **Key Features:** Key Features: The mathematical content of the CPM Core Connections curriculum is carefully aligned with the content standards. The CPM standards correlation documents indicate which standards a particular lesson is developing. There are no lessons in the documents that do not directly address the conceptual development or mastery of a standard. Coherence and connections have always been a core and integral part of CPM. Because of CPM's broad experience and long history with making connections between mathematical topics and developing mathematics in logical "storylines," coherence is deeply and seamlessly interwoven into the fabric of the curriculum.

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## Explore Learning

### Gizmos

- **Grades 9-12**
  - Strengths: The strengths of the Gizmos program are that it provides hundreds of simulations that provide conceptual understanding of mathematical concepts and will help support the development of procedural ability. The program is organized in a clean manner which allows teachers to search by standard, keyword, or topic. The layout of the lesson is user-friendly and contains teacher guides, vocabulary sheets, student sheets, and five summative questions.
  - Weaknesses: Gizmos does not allow for student choice as most simulations are pre-set and designed for supplemental instruction. There is very limited opportunity for summative assessment and is not a great resource for data tracking and growth. The simulations do not change or cater to a student's individual needs and are meant to build upon conceptual understanding.
  - Key Features: ExploreLearning Gizmos® are award-winning, interactive online simulations and case studies that drive inquiry and understanding of math in grades 3-12. Subscriptions give teachers and students access to a library of nearly 500 math and science Gizmos that are aligned to Idaho learning standards. With Gizmos, teachers can supplement and enhance students' blended learning experiences with interactive visualizations of math and

scientific concepts that are tough to teach and tough to understand. Gizmos simulations help Idaho teachers take advantage of research-proven instructional strategies and enables students of all ability levels to develop conceptual understanding in math.

Key Gizmos features:

- Alignment to Idaho math standards and more than 300 leading textbooks
- Self-directed, inquiry-based lessons for every Gizmo that are ready to use as-is or customizable
- Formative assessment with instant feedback for students and real-time reports for teachers
- Flexible for use in whole-group instruction, in small groups, individually, or at home
- Easy-to-use interface so that time is spent teaching and learning math, not the technology
- Accessible anywhere there is an Internet connection to support synchronous or asynchronous instruction

## Houghton Mifflin Harcourt

### Into Math

- **Algebra I, Algebra II, Geometry**
  - Strengths: In HMH Into AGA, each lesson has a framework of: 1. Spark your learning; 2. Build Your Understanding; 3. Step it Out; 4. Check your Understanding; and 5. On your Own. Each category can be adjusted and differentiated based on the needs of the teacher and students. The teacher manual has guided instructions that can be utilized accordingly. The on-line curriculum supports the learning in the classroom and at home with resources to facilitate learning and practice.
  - Weaknesses: There is not enough variety of the number of assessments. There are only two versions of each assessment and could not verify if there was a question bank with which to adjust the assessments as needed. Some of the problems lack rigor and depth.
  - Key Features: The **Into AGA** program's methodology generates deeper understanding of concepts, creates stronger conceptual-to-procedural connections, builds fluency, and embeds real-world application opportunities throughout. **Into AGA** classrooms are active and collaborative learning environments in which students fearlessly explore mathematical concepts; use analytical, strategic, and critical thinking skills; share ideas and discuss reasoning; use hands-on and digital tools effectively; and exhibit grit,

creativity, and tenacity. In **Into AGA**, these facets are woven into the fabric of every lesson.

**Into AGA** has a purposeful and coherent progression of content designed to ensure that students *first* develop a strong foundation of conceptual understanding with Build Understanding lessons. Then, the Connect Concepts and Skills lessons bridge conceptual understanding and procedural skills. Students further strengthen their skills with various types of procedural and application problems in Apply and Practice lessons. The **Into AGA** lesson design gives students opportunities to discover the “why” behind the “how” in mathematics. It reshapes the teaching model and enables students to develop deeper understanding and exercise productive perseverance in problem-solving. The student-centered strategies, hands-on learning, active mathematical discourse with *Language Routines* and *Talk Moves*, and continuous integration of Mathematical Practices create optimal experiences that lead to shared understanding.

Teachers can rely on the **Into AGA** Teacher’s Editions for content-specific differentiated strategies anchored on research and best practices. Every lesson includes *Leveled Questions* (categorized by Depth of Knowledge/complexity level), low-floor high-ceiling *Spark Your Learning* tasks with feedback suggestions in if-then format, *Reteach* and tiered *Intervention* resources, *Challenge* resources and *Extend the Task* activities, supportive *Anchor Chart* models, and leveled options for *Small Groups* and *Math Centers* (On Track, Almost There, and Ready for More).

Assessments are seamlessly built into the instructional framework and directly connected to options for remediation, intervention, enrichment, or practice. **Into AGA** includes diagnostic, formative, summative, and the adaptive *HMH Math Growth Measure* benchmark assessment that check understanding and measure and track growth. The assessments, reports, and teacher resources provide teachers with real-time information about students’ areas of need, growth, and mastery, as well as solid suggestions for grouping and for differentiating with intervention, enrichment, and practice. A strength of **Into AGA** is its ability to help teachers make timely, data-driven instructional decisions that keep all learners moving forward. The program’s unique framework maximizes the ability to pinpoint areas of need and act immediately. The system automatically scores the assessments and sends the data, in real-time, to the teacher’s Data & Reports page on the Ed platform. The variety of actionable reports provide insights, help drive instructional decisions, and track progress over time.

In an independent study evaluating the efficacy of **Into AGA**, all students achieved statistically significant growth in their mathematics knowledge and skills. The study report is available at <https://hnhco.box.com/v/IntoMathEfficacy559G5>. In addition, EdReports reviewed **Into AGA** and gave it their highest rating—“Meets Expectations”—for every Gateway (Focus and Coherence, Rigor and Mathematical Practices, and Usability). In other words, **Into AGA** earned “all green” ratings from EdReports.

Please go to <https://www.edreports.org/reports/overview/hmh-into-math-2020> to see the evaluations on the EdReports site.

With its research-based methods, connected resources designed to drive growth, strong support for educators, and ease of use during in-person and remote learning, **HMH Into AGA** has the power to take students to new levels of achievement.

## Imagine Learning

### Imagine Learning Illustrative Mathematics

- **Algebra I, Algebra II, Geometry**

- Strengths: There are a lot of strengths in this curriculum. The 8 Mathematical Practices are evident throughout the course. Multiple Mathematical Practices are addressed in each lesson. The Mathematical Content Standards are addressed more than once and are built on as the lessons progress. The online platform LearnZillion is easy for teachers and students to navigate. The online platform offers teachers a way to customize worksheets/assignments. There are PowerPoints available for teachers to use for every lesson. The printed materials are well organized and offer students enough room to record their thoughts. The Instructional Routines used in the course help offer teachers different ways to engage students in doing mathematics. The modeling tasks allow students opportunities to connect what they are learning to real work issues. The task-based learning approach gives students the ownership of learning. The teacher editions offer suggestions on how to modify or help students with disabilities. There is the option to virtually teach through LearnZillion. There are premade video lessons available for students. There are lots of different types (summative and formative) assessments available in multiple forms.
- Weaknesses: The materials currently do not come in multiple languages. The publisher has indicated that these materials may be ready by the beginning of the 2022-2023 school year but these materials have not been submitted for review. In addition, it is to be noted that this course covers some information that may exceed what is normally taught in a traditional Algebra I course. Teachers should look over the materials and compare them with their essential standards for their district and/or school in order to prioritize what to teach in their specific classroom. One other concern was that while the student workbook did provide plenty of practice problems, it did not have any worked out examples for students or parents to learn from, as can be found in other, more traditional textbooks. This is often a concern for parents who want to help their students with their homework or if a student is away from school for a

period of time. There are online resources for parents and students but they are not located in the book itself.

- Other Notes: There is an Algebra I Extra Support Course that provides resources and a different pacing setup to help students who may struggle with the content, it should be noted that Algebra I is the only course in the series that has these resources. There is not an extra support course for Geometry and Algebra 2. These two courses do contain some resources for struggling students but not nearly to the level that Algebra I does with the Extra Support Course.
- Key Features: Imagine Learning Illustrative Mathematics offers a full suite of effective tools and digital materials in an intuitive, easy-to-use platform:
  - Seamless integration for strategic, district-wide instruction
  - Classroom- and Distance Learning-ready lesson plans, teaching guides, and additional instructional materials
  - High-quality K-12 curriculum with both interactive digital and print resources
  - Options for students to show thinking and submit work during asynchronous learning time, upload audio, photos and more
  - Clear data to inform instruction

## McGraw Hill

### Reveal Mathematics

- **Algebra I**

- Strengths:
  - Student textbook is in the form of a workbook. It includes examples, room for note-taking, vocabulary, thinking and writing prompts, and practice exercises. The online textbook follows the same format.
  - Provides many resources to facilitate meaningful discourse about mathematics among students. The Explore activities give students an opportunity to work collaboratively, and discuss their thinking (A1:TE pp65c&65d). Students encounter Talk About It! question prompts in the margin of the Interactive Student Edition that encourage them to participate in mathematical discussions with a partner or the entire class. (A1:TE, pp75, 76, 77, 78 and 79.) Pause and Reflect allows students to pause and think about a math question. (A1:TE p80) Find the Error Exercises and Talk About It! questions that ask them to identify an error in another student's reasoning. (A1:TE pp90, 100) In the Teacher Edition and online, Questions for Mathematical Discourse are included for each example to promote high expectations, critical thinking skills, and class

discussion. Questions are included and labeled for different levels of learning including Beyond-Level (BL) questions, At-Level questions, and Approaching-Level (AL) questions with supports and scaffolds (A1:TE pp65, 66, 67).

- Provides many resources for differentiation. We are assuming the Aleks program is included.
- In the online resources there is a large variety of resources available including things like daily lesson presentation slides, various assessments, and many more items.
- Weaknesses:
  - The student textbook is in the form of a workbook and may have to be replaced every year.
  - Several teacher and student resources are only available online.
- Key Features: Most lessons begin with an Explore activity (with an Inquiry Question) to develop conceptual understanding then progress through guided instruction via Learn and Example content.

Key concepts are presented at the beginning of the lesson and then worked through with examples and opportunities for students to try on their own (Checks).  
An optional digital spiral review is provided at the end of each lesson and covers concepts introduced in prior lessons.  
Procedural fluency developed as indicated by standards at the lesson level; procedural fluency happens across lessons within a module.  
Opportunities for mathematical discourse, growth mindset, and productive struggle embedded in instruction and referenced in the TE. Teachers choose when and how to implement them during instruction.  
Most lessons involve an Explore activity that requires digital interaction or projection by the teacher; true blended print/digital implementation.  
Differentiation suggestions appear throughout the lesson in the TE; supplemental tools like ALEKS, resources are also online.

## Reveal Mathematics

- **Algebra II**

- Strengths:
  - Student textbook is in the form of a workbook. It includes examples, room for note-taking, vocabulary, thinking and writing prompts, and practice exercises. The online textbook follows the same format.
  - Provides many resources to facilitate meaningful discourse about mathematics among students. The Explore activities give students an opportunity to work collaboratively, and discuss their thinking (A2:TE pp153c-d). Students encounter Talk About It! question prompts in the margin of the Interactive Student Edition that encourage them to participate in mathematical discussions with a partner or the entire class. (A2:TE 3-3 p162) Pause and Reflect allows students to pause and think

about a math question. (A2:TE 3-3 p163) Find the Error Exercises and Talk About It! questions that ask them to identify an error in another student’s reasoning. (A2:TE 3-4 practice 47 p166) In the Teacher Edition and online, Questions for Mathematical Discourse are included for each example to promote high expectations, critical thinking skills, and class discussion. Questions are included and labeled for different levels of learning including Beyond-Level (BL) questions, At-Level questions, and Approaching-Level (AL) questions with supports and scaffolds (A2:TE 3-8 p203-204).

- Provides many resources for differentiation. We are assuming the Aleks program is included.
- In the online resources there is a large variety of resources available including things like daily lesson presentation slides, various assessments, and many more items.
- Weaknesses:
  - The student textbook is in the form of a workbook and may have to be replaced every year.
  - Several teacher and student resources are only available online.
- Key Features: Most lessons begin with an Explore activity (with an Inquiry Question) to develop conceptual understanding then progress through guided instruction via Learn and Example content.

Key concepts are presented at the beginning of the lesson and then worked through with examples and opportunities for students to try on their own (Checks).  
An optional digital spiral review is provided at the end of each lesson and covers concepts introduced in prior lessons.  
Procedural fluency developed as indicated by standards at the lesson level; procedural fluency happens across lessons within a module.  
Opportunities for mathematical discourse, growth mindset, and productive struggle embedded in instruction and referenced in the TE. Teachers choose when and how to implement them during instruction.  
Most lessons involve an Explore activity that requires digital interaction or projection by the teacher; true blended print/digital implementation.  
Differentiation suggestions appear throughout the lesson in the TE; supplemental tools like ALEKS, resources are also online.

## Reveal Mathematics

- **Geometry**

- Strengths:
  - Student textbook is in the form of a workbook. It includes examples, room for note-taking, vocabulary, thinking and writing prompts, and practice exercises. The online textbook follows the same format.
  - Provides many resources to facilitate meaningful discourse about mathematics among students. The Explore activities give students an

opportunity to work collaboratively, and discuss their thinking (GEO:TE 3-8 p215c-d). Students encounter Talk About It! question prompts in the margin of the Interactive Student Edition that encourage them to participate in mathematical discussions with a partner or the entire class (GEO:TE 3-8 p215). Pause and Reflect allows students to pause and think about a math question (GEO:TE 3-9 p227). Find the Error Exercises and Talk About It! questions that ask them to identify an error in another student’s reasoning (GEO:TE 3-8 p220). In the Teacher Edition and online, Questions for Mathematical Discourse are included for each example to promote high expectations, critical thinking skills, and class discussion. Questions are included and labeled for different levels of learning including Beyond-Level (BL) questions, At-Level questions, and Approaching-Level (AL) questions with supports and scaffolds (GEO: TE 3-1 p157-158).

- Provides many resources for differentiation. We are assuming the Aleks program is included.
  - In the online resources there is a large variety of resources available including things like daily lesson presentation slides, various assessments, and many more items.
- Weaknesses:
  - The student textbook is in the form of a workbook and may have to be replaced every year.
  - Several teacher and student resources are only available online.
- Key Features: Most lessons begin with an Explore activity (with an Inquiry Question) to develop conceptual understanding then progress through guided instruction via Learn and Example content.
 

Key concepts are presented at the beginning of the lesson and then worked through with examples and opportunities for students to try on their own (Checks).

An optional digital spiral review is provided at the end of each lesson and covers concepts introduced in prior lessons.

Procedural fluency developed as indicated by standards at the lesson level; procedural fluency happens across lessons within a module.

Opportunities for mathematical discourse, growth mindset, and productive struggle embedded in instruction and referenced in the TE. Teachers choose when and how to implement them during instruction.

Most lessons involve an Explore activity that requires digital interaction or projection by the teacher; true blended print/digital implementation.

Differentiation suggestions appear throughout the lesson in the TE; supplemental tools like ALEKS, resources are also online.

## Illustrative Mathematics

- **Algebra I**

- Strengths: Meets content standards regularly. Good use of a variety of mathematical practices and mathematical language routines. Teacher’s edition includes a lot of information of value to a teacher, included anticipated misconceptions and modifications for various types of students.
- Weaknesses: Materials are presented in a very basic and uninspiring way. Often, there is no room for student choice, and students are given direction on what to do and how to do it. There is little room for serious thinking and problem solving when methods are given to tasks.
- Key Features:
  - Teacher-facilitated and student-driven instruction with high-leverage routines to guide learners to understand and make connections.
  - Problem-based; students formalize key concepts at the end of the lesson.
  - Each lesson has a set of distributed (spaced) practice problems with a few from the day’s lesson, and the rest are (massed) cumulative review problems.
  - Procedural fluency developed over time and across units. As students’ learning progresses, they make connections between different representations and strategies, consolidating their conceptual understanding, and see and understand more efficient methods of solving problems, supporting the shift toward procedural fluency.
  - Opportunities for mathematical discourse, growth mindset, and productive struggle embedded in routines and activities specifically structured to support them.
  - Can be fully implemented in print or in digital or as a hybrid approach.
  - Differentiation is handled by teacher modifying the activity to meet individual student needs (e.g. ELL, student with disabilities, etc.) with suggestions for modification and support. Differentiation is handled mainly through the construction of the program. The design of the lessons allows access for all students. Limited differentiation support appears in the TE.

## Illustrative Mathematics

- **Algebra II**

- Strengths:
  - All materials are available in print and digitally. Digital practice problems and assessments are mostly autoscored without additional feedback. Usable in digital, hybrid, or brick-and-mortar environments.
  - A problem-based curriculum that integrates “5 Practices for Orchestrating Effective Mathematics Discussions”, “Routines for Reasoning”, and modeling with mathematics.

- Illustrative Mathematics materials are open educational resources (OER) with adoptions and communities of collaboration across the US.
  - The “Are you ready for more?” extensions and more particularly, the Mathematical Modeling prompts in the appendix feature rich modeling opportunities.
- Weaknesses:
  - Some assessment types are only available if bundling with ALEKS.
  - This program provides some guidance applicable to MTSS programs, but very few additional resources.
  - Not available in other languages.
  - Other Notes: Bundling with ALEKS vs opting out of the ALEKS bundle changes some of the conclusions in the assessment and MTSS sections. In particular, without ALEKS, this curriculum is considered a basic program rather than a comprehensive program because supplemental instruction resources that provide more frequent and varied learning opportunities to support acquisition of identified skills are not provided. Adaptation packs available on the illustrative mathematics community hub may remedy that issue.
- Key Features:
  - Teacher-facilitated and student-driven instruction with high-leverage routines to guide learners to understand and make connections.
  - Problem-based; students formalize key concepts at the end of the lesson.
  - Each lesson has a set of distributed (spaced) practice problems with a few from the day’s lesson, and the rest are (massed) cumulative review problems.
  - Procedural fluency developed over time and across units. As students’ learning progresses, they make connections between different representations and strategies, consolidating their conceptual understanding, and see and understand more efficient methods of solving problems, supporting the shift toward procedural fluency.
  - Opportunities for mathematical discourse, growth mindset, and productive struggle embedded in routines and activities specifically structured to support them.
  - Can be fully implemented in print or in digital or as a hybrid approach.
  - Differentiation is handled by teacher modifying the activity to meet individual student needs (e.g. ELL, student with disabilities, etc.) with suggestions for modification and support. Differentiation is handled mainly through the construction of the program. The design of the lessons allows access for all students. Limited differentiation support appears in the TE.

## Illustrative Mathematics

- **Geometry**

- Strengths:
  - All materials are available in print and digitally. Digital practice problems and assessments are mostly autoscored without additional feedback. Usable in digital, hybrid, or brick-and-mortar environments.
  - A problem-based curriculum that integrates “5 Practices for Orchestrating Effective Mathematics Discussions”, “Routines for Reasoning”, and modeling with mathematics.
  - Illustrative Mathematics materials are open educational resources (OER) with adoptions and communities of collaboration across the US.
- Weaknesses:
  - Some assessment types are only available if bundling with ALEKS.
  - While the Mathematical Modeling prompts in the appendix and the “Are you ready for more?” extension feature rich modeling opportunities, very few of the practice tasks/activities include modeling with mathematics and almost none of them include meaningful context.
  - This program provides some guidance applicable to MTSS programs, but very few additional resources.
  - Not available in other languages.
- Other Notes: Bundling with ALEKS vs opting out of the ALEKS bundle changes some of the conclusions in the assessment and MTSS sections. In particular, without ALEKS, this curriculum is considered a basic program rather than a comprehensive program because supplemental instruction resources that provide more frequent and varied learning opportunities to support acquisition of identified skills are not provided. Adaptation packs available on the illustrative mathematics community hub may remedy that issue.
- Key Features:
  - Teacher-facilitated and student-driven instruction with high-leverage routines to guide learners to understand and make connections.
  - Problem-based; students formalize key concepts at the end of the lesson.
  - Each lesson has a set of distributed (spaced) practice problems with a few from the day’s lesson, and the rest are (massed) cumulative review problems.
  - Procedural fluency developed over time and across units. As students’ learning progresses, they make connections between different representations and strategies, consolidating their conceptual understanding, and see and understand more efficient methods of solving problems, supporting the shift toward procedural fluency.

- Opportunities for mathematical discourse, growth mindset, and productive struggle embedded in routines and activities specifically structured to support them.
- Can be fully implemented in print or in digital or as a hybrid approach.
- Differentiation is handled by teacher modifying the activity to meet individual student needs (e.g. ELL, student with disabilities, etc.) with suggestions for modification and support. Differentiation is handled mainly through the construction of the program. The design of the lessons allows access for all students. Limited differentiation support appears in the TE.

## Open up Resources

### Open Up Math

- **Integrated Math I-III**
  - **Strengths:** The curriculum contains wonderful guidance for leading students through the content. Skills are sequenced through Math I, Math II and Math III by using the same example context. These repeated examples introduce new skills that build upon previous skills. This aligns the content with easier recognition for the students as they progress through the curriculum. This curriculum also provides outstanding teacher resources in each lesson with “Anticipate Student Thinking,” “Monitor Student Thinking,” and “Connect Student Thinking” that helps guide the teacher with meaningful discussion to successfully meet the learning goals.
  - **Weaknesses:** The curriculum is divided into multiple books for each unit. The Teacher Edition includes a companion resource “flip book” that contains charts and explanations with multiple books for each concept in each unit. Also, at this time, this curriculum has not been determined as available in a language other than English.
  - **Key Features:** The curriculum is designed with research-based teaching practices, aligned to standards, and embedded with supports to meet the needs of all learners. The materials provide students with engaging tasks, as well as with opportunities to reason logically and mathematically and to engage daily with the Standards for Mathematical Practice. Open Up High School Mathematics is a problem-based mathematics curriculum, where students actively engage in learning, rather than passively listening. The value of this task-based approach is the prioritization of sense-making and reasoning over memorization and drill. Procedural skills evolve from and are connected to, conceptual understanding. Teachers help students understand the problems and guide discussions to ensure that the mathematical takeaways are clear to all. In the process, students explain their reasoning and learn to communicate mathematical ideas. The

materials are embedded with rich mathematical tasks that make mathematics accessible and relevant. Students engage with meaningful tasks and are encouraged to use their funds of knowledge to reason and problem solve. The intuitive and strategic ways of reasoning shared by students are cultivated and supported, allowing rich discussions to occur where connections are made and clear mathematical goals are achieved. Mathematical concepts, procedures, and representations emerge from student activity and teacher-led discussion, as well as from the written text and the teacher supports. The teacher introduces appropriate vocabulary, notation, and conventions when there is an intellectual need to express a concept or to align with the mathematical community of practice. Mathematics is shared by the class, rather than owned by the teacher.

### Open Up Math

- **Algebra I, Algebra II, Geometry**
  - Strengths: The curriculum is built around problem solving skills and real-world applications. The students will have many opportunities to practice different strategies and connect them to mathematical concepts. The “Ready, Set, Go” assignments give the students the opportunity to practice new skills and make connections between concepts. They also include review problems from previous lessons. The curriculum includes a schedule for assessments, as well as quizzes to be used throughout the unit. There are two forms of summative assessments, a unit assessment and a performance assessment, allowing students multiple opportunities to show understanding. Digital curriculum is available where a teacher can create classes and assignments for the entire class or select students.
  - Weaknesses: No diagnostic tests are provided to see where students are at the beginning, middle, or end of the course. No resources are provided to support missed learning from prior grades and differentiation is left up to the teacher with suggestions on strategies listed in the TE (differentiation can be achieved through the digital curriculum).
  - Other Notes: The digital materials can be downloaded, edited, and printed through Word or PDF. There is a technology component for the curriculum that includes assigning work to classes or individual students (can be edited as well). The curriculum includes many Extension standards and Extension lessons are labeled with “E” next to the lesson number.
  - Key Features: The curriculum is designed with research-based teaching practices, aligned to standards, and embedded with supports to meet the needs of all learners. The materials provide students with engaging tasks, as well as with opportunities to reason logically and mathematically and to engage daily with the Standards for Mathematical Practice. Open Up High School Mathematics is a problem-based mathematics curriculum, where students actively engage in learning, rather than passively listening. The value of this task-based approach is the prioritization of sense-making and reasoning over memorization and drill. Procedural skills evolve from, and are connected to, conceptual understanding.

Teachers help students understand the problems and guide discussions to ensure that the mathematical takeaways are clear to all. In the process, students explain their reasoning and learn to communicate mathematical ideas. The materials are embedded with rich mathematical tasks that make mathematics accessible and relevant. Students engage with meaningful tasks and are encouraged to use their funds of knowledge to reason and problem solve. The intuitive and strategic ways of reasoning shared by students are cultivated and supported, allowing rich discussions to occur where connections are made and clear mathematical goals are achieved. Mathematical concepts, procedures, and representations emerge from student activity and teacher-led discussion, as well as from the written text and the teacher supports. The teacher introduces appropriate vocabulary, notation, and conventions when there is an intellectual need to express a concept or to align with the mathematical community of practice. Mathematics is shared by the class, rather than owned by the teacher.

## Savvas

### enVision Mathematics

- **Integrated I-II**
  - **Strengths:** This curriculum aligns well with the standards and is perfectly aligned as a whole program. There is a balance of problem-based tasks and procedural practice. There are a lot of resources for teachers both in the teacher edition and online. The Teacher Edition has scaffolding for the teachers to help facilitate student discourse and incorporate literacy into their classroom. There are also several modes of formative assessment that can inform instruction as well as resources for intervention and/or enrichment.
  - **Weaknesses:** While this course does not cover every standard sub-category (in the Idaho Mathematics Content Standards), the curriculum, as a whole, covers every standard.
  - **Other Notes:** Check to see if the pricing for the online homework and testing is included or is an addition.
  - **Key Features:** enVision Integrated Mathematics is organized to focus on the Common Core Clusters; aligns to the next generation assessment content emphases requirements; and offers the focus, coherence, and rigor as defined by the Common Core State Standards for Mathematics. Consistent, everyday engagement of the Standards for Mathematical Practice enables learners to develop understandings and use mathematics with understanding. enVision Integrated Mathematics provides print and digital resources to personalize learning and support a research-based instructional model. This enables the program to be taught in a variety of classroom models as an authentic learning experience in print, digital, and blended approaches. For

example Problem-Based Learning is key to conceptual development and is an integral part of every lesson in the student print component and as a digital experience at every grade. Interactive digital practice provides a strong, student independent practice leveling experience and parallel, leveled print student practice components are also provided.

enVision Integrated Mathematics offers rich differentiation resources for every lesson that include robust intervention activities and great variety of engaging experiences for all levels of learners through print and digital tools, embedded interactivities powered by Desmos, and interactive workspaces.

enVision Integrated Mathematics digital courseware is hosted on Savvas Realize™ learning management system. Savvas Realize provides a vast array of engaging, interactive learning experiences, videos, practice opportunities, and interactivity for students, as well as comprehensive supports and resources for teachers.

With Savvas Realize, teachers can customize their courses to fit their needs, and get real-time data on how students are progressing in order to help inform instruction. Online interactives, math tutorials, adaptive learning, and differentiation supports every learner. Single sign-on Savvas Realize™ improves district-wide alignment, collaboration, and student data tracking. Savvas Realize works with Google rosterSync™, Google Classroom™, Google Drive™, Canvas, and Schoology.

## enVision Mathematics

- **Integrated III**

- **Strengths:** This curriculum aligns well with the standards and is perfectly aligned as a whole program. There is a balance of problem-based tasks and procedural practice. There are a lot of resources for teachers both in the teacher edition and online. The Teacher Edition has scaffolding for the teachers to help facilitate student discourse and incorporate literacy into their classroom. There are also several modes of formative assessment that can inform instruction as well as resources for intervention and/or enrichment.
- **Weaknesses:** Note that this book does not cover every Idaho Mathematics Content standard sub-category (namely congruence and calculating probabilities). If students have had the opportunity to do the entire curriculum (Integrated I-III) then they have met all content standards. For students who have not had that opportunity, teachers may need to supplement those standards.
- **Other Notes:** Check to see if the pricing for the online homework and testing is included or is an addition.
- **Key Features:** enVision Integrated Mathematics is organized to focus on the Common Core Clusters; aligns to the next generation assessment content emphases requirements; and offers the focus, coherence, and rigor as defined by

the Common Core State Standards for Mathematics. Consistent, everyday engagement of the Standards for Mathematical Practice enables learners to develop understandings and use mathematics with understanding.

enVision Integrated Mathematics provides print and digital resources to personalize learning and support a research-based instructional model. This enables the program to be taught in a variety of classroom models as an authentic learning experience in print, digital, and blended approaches. For example Problem-Based Learning is key to conceptual development and is an integral part of every lesson in the student print component and as a digital experience at every grade. Interactive digital practice provides a strong, student independent practice leveling experience and parallel, leveled print student practice components are also provided.

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## envision Mathematics

- **Algebra I**

- Strengths: Order of topics is well-thought out, scaffolded to build on previously taught concepts, & filled throughout with contextualization to support the understanding of the concepts. The organization and format of the book is consistent within each unit and lesson, with multiple concept representations of appropriate level scenarios. Huge strength is how the book integrates visual modeling to contextualize concepts. Modeling is evident throughout every lesson with connections between visuals, infographics, graphs, scenarios and other representations. The visuals evident throughout the entire text aid students at any reading level in making sense of a problem. Online slideshows for each lesson provide visuals and examples for class. Precision of communication and mathematical symbols are clearly shown throughout lessons. Visual English/Spanish glossary is visually appealing and communicates information clearly using words, visuals and algebraic representations. There are audio files and videos available online. The textbook has a Spanish language online version. The interactive online student edition will read the problems out loud in English or Spanish. Concepts are consistently scaffolded from an abstract example to a contextualized scenario with multiple representations. There are appropriate Algebra 1 contextual uses of geometric figures (perimeters, areas, volumes) for simplifying and solving algebraic expressions and equations - this provides scaffolding for when students move on to a Geometry course. Includes a concept summary at the end of each Lesson as well as a Topic review at the end of each topic that communicates and reviews the learning goals of the topic as a whole with visual examples. Assessments are editable and customizable and can be given online or in print versions. Spanish assessments are available (but not customizable). Topic Readiness Assessment can be used to diagnose students' proficiency with topic prerequisite concepts & skills. Results can be used to automatically generate a personalized adaptive practice study plan. "Virtual Nerd" tutorial videos available online (over 1500 videos from 6th grade to Algebra 2) and are close-captioned in Spanish. Many editable worksheets. Teachers may easily customize lessons, integrate Google Classroom® (including assignments and grading), or add open educational resources.
- Weaknesses: Teaches methods of solving quadratics, but does not focus on determining the most efficient strategy on a case-by-case basis. Exponent properties/rules start with rational exponents without a review of integer exponents.

- **Key Features:** The enVision Algebra 1, enVision Geometry, and enVision Algebra 2 courses (enVision A|G|A) are organized to focus on the Common Core Clusters; aligns to the next generation assessment content emphases requirements; and offers the focus, coherence, and rigor as defined by the Common Core State Standards for Mathematics. Consistent, everyday engagement of the Standards for Mathematical Practice enables learners to develop understandings and use mathematics with understanding.  
enVision A|G|A provides print and digital resources to personalize learning and support a research-based instructional model. This enables the program to be taught in a variety of classroom models as an authentic learning experience in print, digital, and blended approaches. For example, Problem-Based Learning is key to conceptual development and is an integral part of every lesson in the student print component and as a digital experience at every grade. Interactive digital practice provides a strong, student independent practice leveling experience and parallel, leveled print student practice components are also provided.  
enVision A|G|A offers rich differentiation resources for every lesson that include robust intervention activities and great variety of engaging experiences for all levels of learners through print and digital tools, embedded interactivities powered by Desmos, and interactive workspaces.  
enVision A|G|A digital courseware is hosted on Savvas Realize™ learning management system. Savvas Realize provides a vast array of engaging, interactive learning experiences, videos, practice opportunities, and interactivity for students, as well as comprehensive supports and resources for teachers. With Savvas Realize, teachers can customize their courses to fit their needs, and get real-time data on how students are progressing in order to help inform instruction. Online interactives, math tutorials, adaptive learning, and differentiation supports every learner. Single sign-on Savvas Realize™ improves district-wide alignment, collaboration, and student data tracking. Savvas Realize works with Google rosterSync™, Google Classroom™, Google Drive™, Canvas, and Schoology.

## enVision Mathematics

- **Algebra II**
  - **Strengths:** Order of topics is well-thought out, scaffolded to build on previously taught concepts, & filled throughout with contextualization to support the understanding of the concepts. The organization and format of the book is consistent within each unit and lesson, with multiple concept representations of appropriate level scenarios. Huge strength is how the book integrates visual modeling to contextualize concepts. Modeling is evident throughout every lesson with connections between visuals, infographics, graphs, scenarios and other representations. The visuals evident throughout the entire text aid

students at any reading level in making sense of a problem. Online slideshows for each lesson provide visuals and examples for class. Precision of communication and mathematical symbols are clearly shown throughout lessons. Visual English/Spanish glossary is visually appealing and communicates information clearly using words, visuals and algebraic representations. There are audio files and videos available online. The textbook has a Spanish language online version. The interactive online student edition will read the problems out loud in English or Spanish. Concepts are consistently scaffolded from an abstract example to a contextualized scenario with multiple representations. There are appropriate Algebra 1 contextual uses of geometric figures (perimeters, areas, volumes) for simplifying and solving algebraic expressions and equations - this provides scaffolding for when students move on to a Geometry course. Includes a concept summary at the end of each Lesson as well as a Topic review at the end of each topic that communicates and reviews the learning goals of the topic as a whole with visual examples. Assessments are editable and customizable and can be given online or in print versions. Spanish assessments are available (but not customizable). Topic Readiness Assessment can be used to diagnose students' proficiency with topic prerequisite concepts & skills. Results can be used to automatically generate a personalized adaptive practice study plan. "Virtual Nerd" tutorial videos available online (over 1500 videos from 6th grade to Algebra 2) and are close-captioned in Spanish. Many editable worksheets. Teachers may easily customize lessons, integrate Google Classroom® (including assignments and grading), or add open educational resources.

- Weaknesses: Linear functions and solving systems of 2 linear equations are not reviewed in depth. There is very little general factoring that is reviewed or taught prior to solving quadratic equations. Although solving quadratics with various methods is taught, little focus is given to strategically using a quadratic solving method. Linear functions and solving systems of 2 linear equations are not reviewed in depth.
- Other Notes: There are additional units included that may or may not be used in a school's Algebra 2 course. These include Unit 7: Trigonometric functions, unit circle and graphs, Unit 8: Trigonometric equations and identities through polar forms of complex numbers, Unit 9: Conics, Unit 10: Matrices and operations, vectors, inverses and determinants, Unit 11: Data Analysis and Statistics with normal distributions, the empirical rule and introduction to hypothesis testing, Unit 12: Probability with permutations and combinations, conditional probabilities, distributions, expected values and decision making.

- **Key Features:** The enVision Algebra 1, enVision Geometry, and enVision Algebra 2 courses (enVision A|G|A) are organized to focus on the Common Core Clusters; aligns to the next generation assessment content emphases requirements; and offers the focus, coherence, and rigor as defined by the Common Core State Standards for Mathematics. Consistent, everyday engagement of the Standards for Mathematical Practice enables learners to develop understandings and use mathematics with understanding.  
enVision A|G|A provides print and digital resources to personalize learning and support a research-based instructional model. This enables the program to be taught in a variety of classroom models as an authentic learning experience in print, digital, and blended approaches. For example, Problem-Based Learning is key to conceptual development and is an integral part of every lesson in the student print component and as a digital experience at every grade. Interactive digital practice provides a strong, student independent practice leveling experience and parallel, leveled print student practice components are also provided.  
enVision A|G|A offers rich differentiation resources for every lesson that include robust intervention activities and great variety of engaging experiences for all levels of learners through print and digital tools, embedded interactivities powered by Desmos, and interactive workspaces.  
enVision A|G|A digital courseware is hosted on Savvas Realize™ learning management system. Savvas Realize provides a vast array of engaging, interactive learning experiences, videos, practice opportunities, and interactivity for students, as well as comprehensive supports and resources for teachers. With Savvas Realize, teachers can customize their courses to fit their needs, and get real-time data on how students are progressing in order to help inform instruction. Online interactives, math tutorials, adaptive learning, and differentiation supports every learner. Single sign-on Savvas Realize™ improves district-wide alignment, collaboration, and student data tracking. Savvas Realize works with Google rosterSync™, Google Classroom™, Google Drive™, Canvas, and Schoology.

## **enVision Mathematics**

- **Geometry**

- **Strengths:** Order of topics is well-thought out, scaffolded to build on previously taught concepts, & filled throughout with contextualization to support the understanding of the concepts. The organization and format of the book is consistent within each unit and lesson, with multiple concept representations of appropriate level scenarios. Huge strength is how the book integrates visual modeling to contextualize concepts. Modeling is evident throughout every lesson with connections between visuals, infographics, graphs, scenarios and other representations. The visuals evident throughout the entire text aid

students at any reading level in making sense of a problem. Online slideshows for each lesson provide visuals and examples for class. Precision of communication and mathematical symbols are clearly shown throughout lessons. Visual English/Spanish glossary is visually appealing and communicates information clearly using words, visuals and algebraic representations. There are audio files and videos available online. The textbook has a Spanish language online version. The interactive online student edition will read the problems out loud in English or Spanish. Concepts are consistently scaffolded from an abstract example to a contextualized scenario with multiple representations. There are appropriate Algebra 1 contextual uses of geometric figures (perimeters, areas, volumes) for simplifying and solving algebraic expressions and equations - this provides scaffolding for when students move on to a Geometry course. Includes a concept summary at the end of each Lesson as well as a Topic review at the end of each topic that communicates and reviews the learning goals of the topic as a whole with visual examples. Assessments are editable and customizable and can be given online or in print versions. Spanish assessments are available (but not customizable). Topic Readiness Assessment can be used to diagnose students' proficiency with topic prerequisite concepts & skills. Results can be used to automatically generate a personalized adaptive practice study plan. "Virtual Nerd" tutorial videos available online (over 1500 videos from 6th grade to Algebra 2) and are close-captioned in Spanish. Many editable worksheets. Teachers may easily customize lessons, integrate Google Classroom® (including assignments and grading), or add open educational resources.

- Weaknesses: No weaknesses evident.
- Key Features: The enVision Algebra 1, enVision Geometry, and enVision Algebra 2 courses (enVision A|G|A) are organized to focus on the Common Core Clusters; aligns to the next generation assessment content emphases requirements; and offers the focus, coherence, and rigor as defined by the Common Core State Standards for Mathematics. Consistent, everyday engagement of the Standards for Mathematical Practice enables learners to develop understandings and use mathematics with understanding.  
enVision A|G|A provides print and digital resources to personalize learning and support a research-based instructional model. This enables the program to be taught in a variety of classroom models as an authentic learning experience in print, digital, and blended approaches. For example, Problem-Based Learning is key to conceptual development and is an integral part of every lesson in the student print component and as a digital experience at every grade. Interactive digital practice provides a strong, student independent practice leveling experience and parallel, leveled print student practice components are also provided.

enVision A|G|A offers rich differentiation resources for every lesson that include robust intervention activities and great variety of engaging experiences for all levels of learners through print and digital tools, embedded interactivities powered by Desmos, and interactive workspaces.

enVision A|G|A digital courseware is hosted on Savvas Realize™ learning management system. Savvas Realize provides a vast array of engaging, interactive learning experiences, videos, practice opportunities, and interactivity for students, as well as comprehensive supports and resources for teachers. With Savvas Realize, teachers can customize their courses to fit their needs, and get real-time data on how students are progressing in order to help inform instruction. Online interactives, math tutorials, adaptive learning, and differentiation supports every learner. Single sign-on Savvas Realize™ improves district-wide alignment, collaboration, and student data tracking. Savvas Realize works with Google rosterSync™, Google Classroom™, Google Drive™, Canvas, and Schoology.

## Walch

### CCSS IP

- **Math I**

- Strengths: The strength of these materials are implementation guides for the activities and problem-based tasks that give explicit instruction to teachers regarding how to support students. The materials are well structured. They start with the essential questions and good foundational material and work toward a deep understanding of concepts by the conclusion of the unit. The pre-test, progress monitoring and final assessments provide excellent formative materials for teachers to adjust their instruction to the needs of the students throughout the unit. Overall, students would find these materials meet all the standards, provide the right challenge and support needed, and provide clear and thorough instructional activities, problems and assessments.
- Weaknesses: The curriculum relies on outside sources to provide engaging, relevant material for students.
- Other Notes: The assistance for students who are EL is limited for Spanish and is extremely limited for other languages.
- Key Features: The Common Core State Standards Integrated Pathway: Mathematics I Program is a complete set of materials developed around the Common Core State Standards (CCSS), Lessons are built around accessible core curricula, ensuring that the program is useful for striving students and diverse classrooms. This program realizes the benefits of exploratory and investigative learning and employs a variety of instructional models to meet the learning

needs of students with a range of abilities. The CCSS Integrated Pathway: Mathematics I Program includes components that support problem-based learning, instruct and coach as needed, provide practice, and assess students' skills. Instructional tools and strategies are embedded throughout.

The set of unit print materials or digital version of the program includes:

- Essential Questions for each instructional lesson
- Vocabulary
- Guided Practice, Scaffolded Practice, 2 sets of Practice problems and 1 interactive practice per lesson
- Problem-based Tasks and Coaching questions
- Step-by-step graphing calculator instructions for the TI-Nspire and the TI-83/84
- Conceptual Activities, Conceptual Tasks and Station activities to promote collaborative learning, conceptual understanding and problem-solving skills
- Embedded Instructional Strategies to enable access for all students

## CCSS IP

- **Math II**

- Strengths: The strength of these materials are implementation guides for the activities and problem-based tasks that give explicit instruction to teachers regarding how to support students. The materials are well structured. They start with the essential questions and good foundational material and work toward a deep understanding of concepts by the conclusion of the unit. The pre-test, progress monitoring and final assessments provide excellent formative materials for teachers to adjust their instruction to the needs of the students throughout the unit. Overall, students would find these materials meet all the standards, provide the right challenge and support needed, and provide clear and thorough instructional activities, problems and assessments.
- Weaknesses: Some of the problems in the Walch Math II materials may not seem extremely realistic to high school students, but they are very strong in their ability to develop conceptual knowledge and the skills needed to master the Math II content. The curriculum relies on outside sources to provide engaging, relevant material for students.
- Other Notes: The assistance for students who are EL is limited for Spanish and is extremely limited for other languages.
- Key Features: The Common Core State Standards Integrated Pathway: Mathematics II Program is a complete set of materials developed around the

Common Core State Standards (CCSS), Lessons are built around accessible core curricula, ensuring that the program is useful for striving students and diverse classrooms. This program realizes the benefits of exploratory and investigative learning and employs a variety of instructional models to meet the learning needs of students with a range of abilities. The CCSS Integrated Pathway: Mathematics I Program includes components that support problem-based learning, instruct and coach as needed, provide practice, and assess students' skills. Instructional tools and strategies are embedded throughout.

The set of unit print materials or digital version of the program includes:

- Essential Questions for each instructional lesson
- Vocabulary
- Guided Practice, Scaffolded Practice, 2 sets of Practice problems and 1 interactive practice per lesson
- Problem-based Tasks and Coaching questions
- Step-by-step graphing calculator instructions for the TI-Nspire and the TI-83/84
- Conceptual Activities, Conceptual Tasks and Station activities to promote collaborative learning, conceptual understanding and problem-solving skills
- Embedded Instructional Strategies to enable access for all students

## CCSS IP

- **Math III**

- Strengths: The strength of these materials are implementation guides for the activities and problem-based tasks that give explicit instruction to teachers regarding how to support students. The materials are well structured. They start with the essential questions and good foundational material and work toward a deep understanding of concepts by the conclusion of the unit. The pre-test, progress monitoring and final assessments provide excellent formative materials for teachers to adjust their instruction to the needs of the students throughout the unit. The activities in Math III are appealing and engaging. Overall, students would find these materials meet all the standards, provide the right challenge and support needed, and provide clear and thorough instructional activities, problems and assessments.
- Weaknesses: The curriculum relies on outside sources to provide engaging, relevant material for students.
- Other Notes: The assistance for students who are EL is limited for Spanish and is extremely limited for other languages.

- Key Features: The Common Core State Standards Integrated Pathway: Mathematics III Program is a complete set of materials developed around the Common Core State Standards (CCSS), Lessons are built around accessible core curricula, ensuring that the program is useful for striving students and diverse classrooms. This program realizes the benefits of exploratory and investigative learning and employs a variety of instructional models to meet the learning needs of students with a range of abilities. The CCSS Integrated Pathway: Mathematics I Program includes components that support problem-based learning, instruct and coach as needed, provide practice, and assess students' skills. Instructional tools and strategies are embedded throughout. The set of unit print materials or digital version of the program includes:
  - Essential Questions for each instructional lesson
  - Vocabulary
  - Guided Practice, Scaffolded Practice, 2 sets of Practice problems and 1 interactive practice per lesson
  - Problem-based Tasks and Coaching questions
  - Step-by-step graphing calculator instructions for the TI-Nspire and the TI-83/84
  - Conceptual Activities, Conceptual Tasks and Station activities to promote collaborative learning, conceptual understanding and problem-solving skills
  - Embedded Instructional Strategies to enable access for all students

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**For Questions Contact**

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