



# 6-8 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 6-8

#### Amplify

##### Amplify Math

- **Grade 6**

- **Strengths:** The program is thorough and well-scaffolded. Teacher materials are complex and easy to navigate. The online program supports Tier 1 instruction and provides a technological component for student work and collaboration, as well as teacher feedback. Through the use of narratives, the program offers students high-interest, real-world connections to math concepts.
- **Weaknesses:** The program does offer teacher suggestions for differentiation and language support, but does not provide additional lesson plans or resources for remediation or enrichment beyond what is offered in the Tier 1 materials. The program is working to develop a Spanish edition and there is a Spanish Glossary in the student textbook, but there are not currently Spanish equivalents for all resources. The program does not provide a comprehensive family letter for each unit of study.
- **Other Notes:** The narratives, images, and “featured mathematicians” within the program represent a wide variety of nationalities, and ethnic origins. The lesson contexts are very engaging to a 6th grade student, lesson contexts include oobleck, student council elections, and historical events.
- **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

## Amplify Math

- **Grade 7**

- Strengths: The program is thorough and well-scaffolded. Teacher materials are complex and easy to navigate. The online program supports Tier 1 instruction and provides a technological component for student work and collaboration, as well as teacher feedback. Through the use of narratives, the program offers students high-interest, real-world connections to math concepts.
- Weaknesses: The program does offer teacher suggestions for differentiation and language support, but does not provide additional lesson plans or resources for remediation or enrichment beyond what is offered in the Tier 1 materials. The program is working to develop a Spanish edition and there is a Spanish Glossary in the student textbook, but there are not currently Spanish equivalents for all resources. The program does not provide a comprehensive family letter for each unit of study.
- Other Notes: The narratives, images, and “featured mathematicians” within the program represent a wide variety of nationalities, and ethnic origins. The lesson contexts are very engaging to a 7th grade student, lesson contexts include oobleck, student council elections, and historical events.
- 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.

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- Storytelling and narrative elements that make the math real, relevant, and memorable

## **Amplify Math**

- **Grade 8**

- Strengths: The program is thorough and well-scaffolded. Teacher materials are complex and easy to navigate. The online program supports Tier 1 instruction and provides a technological component for student work and collaboration, as well as teacher feedback. Through the use of narratives, the program offers students high-interest, real-world connections to math concepts.
- Weaknesses: The program does offer teacher suggestions for differentiation and language support, but does not provide additional lesson plans or resources for remediation or enrichment beyond what is offered in the Tier 1 materials. The program is working to develop a Spanish edition and there is a Spanish Glossary in the student textbook, but there are not currently Spanish equivalents for all resources. The program does not provide a comprehensive family letter for each unit of study.
- Other Notes: The narratives, images, and “featured mathematicians” within the program represent a wide variety of nationalities, and ethnic origins. The lesson contexts are very engaging to an 8th grade student. Unit 8’s narrative is centered around the hole in the ozone layer and climate change.

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## Big Ideas

### Big Ideas Learning Math

- **Grade 6**

- Strengths: The Idaho Math for grade 6 curriculum covers all the standards for the grade level and has connection with real life problems. It has a strong online version with resources for teachers and students. It also addresses Tier 2 and Tier 3 learning resources. It contains diagrams, pictures, graphs for visual appeal for more concrete comprehension of math problems. The teacher and student books are one volume, which is easier to manipulate than multiple volumes with several units.
- Weaknesses: The curriculum material appears in a traditional textbook format. Because of this formatting, the pages contain many problems which can be overwhelming for some learners. If using the online resources, teachers will have to spend time formatting for their own needs. There are online resources

available in Spanish, but no other languages (with the exception of a family letter). Models are often given to students to complete instead of having students create their own model that best fits their thinking and their problem.

- **Other Notes:** The material includes resources in Spanish, including the entire student edition and teacher edition in an online PDF format. The Spanish learning and teaching resources are complete when using the online resources.
- **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

### Big Ideas Learning Math

- **Grade 7**

- **Strengths:** The Idaho Math for grade 7 curriculum covers all the standards for the grade level and has connection with real life problems. It has a strong online version with resources for teachers and students. It also addresses Tier 2 and Tier 3 learning resources. It contains diagrams, pictures, graphs for visual appeal

for more concrete comprehension of math problems. The teacher and student books are one volume, which is easier to manipulate than multiple volumes.

- Weaknesses: The curriculum material appears in a traditional textbook format. Because of this formatting, the pages contain many problems which can be overwhelming for some learners. If using the online resources, teachers will have to spend time formatting for their own needs. There are online resources available in Spanish, but no other languages (with the exception of a family letter). Models are often given to students to complete instead of having students create their own model that best fits their thinking and their problem.
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- Dynamic Classroom
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## Big Ideas Learning Math

- **Grade 8**

- **Strengths:** The Idaho Math for grade 8 curriculum covers all the standards for the grade level and has connection with real life problems. It has a strong online version with resources for teachers and students. It also addresses Tier 2 and Tier 3 learning resources. It contains diagrams, pictures, graphs for visual appeal for more concrete comprehension of math problems. The teacher and student books are one volume, which is easier to manipulate than multiple volumes with several units.
- **Weaknesses:** The curriculum material appears in a traditional textbook format. Because of this formatting, the pages contain many problems which can be overwhelming for some learners. If using the online resources, teachers will have to spend time formatting for their own needs. There are online resources available in Spanish, but no other languages (with the exception of a family letter). Models are often given to students to complete instead of having students create their own model that best fits their thinking and their problem.
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## Carnegie Learning

### Middle School Math Solutions Course 1

- **Grade 6**

- **Strengths:** The Carnegie Learning curriculum combines “consumable textbooks and MATHia software to support student-centered, collaborative math learning and deep conceptual understanding.” Students need to demonstrate mastery on each knowledge component underlying a particular topic before they can proceed to the next topic. Curriculum is designed to look like state testing questions. The design and structure of each module is designed to establish a foundation with numbers to prepare students for the rest of the course. Graphic organizers are regularly provided to aid in instruction as well as being proven to benefit English Language Learners. Skills practice worksheets are available to those with limited online access. Teachers do the math first in the teacher’s edition to help develop detailed notes in planning each lesson (valuable for new/incoming teachers). Differentiation strategies and suggestions for teacher are provided in every lesson. Scaffolding in presentation is evident with each lesson, providing justification for learning the next math concept in each subsequent lesson that follows. It is clear that **ALL** of the Standards for Mathematical Practice are being addressed simply in how the curriculum has been structured. **All** of the Idaho Content Standards are represented in the Carnegie Learning curriculum.
- **Weaknesses:** Given that 40% of the curriculum comes from the MATHia software (the remaining 60% from the consumable workbook), licensing would need to be renewed after your license expires in order for the curriculum to remain functional. Intensive district training appears to be a must. One course cannot be taught in isolation (6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade material build on one another). Complete buy-in from all 6<sup>th</sup> through 8<sup>th</sup> teachers appears necessary for this type of curriculum to succeed. Material may be too “deep” for extremely low students who struggle in reading and writing (of which there is a great deal!); it is written at an extremely high level (see #5 in Talk the Talk on page 22 of the 6<sup>th</sup>



grade course). A lot of home help seems expected with the software and assumes internet connectivity at home. This curriculum could be difficult to use for long-term subs or new teachers to a classroom that haven't had intensive training on the material (again, intensive, regular, on-going training appears to be a must if the curriculum is to be used effectively). Laptops would be needed for every student in a classroom. It is assumed a district has a solid internet network. Independent mastery hinges on access to the MATHia software (it is where the repletion is provided for mastery); practice seems minimal in the textbook. Assumes incoming 6<sup>th</sup> graders have mastered certain concepts with little to no remediation (a valid concern where some students have missed up to 2 years of schooling due to Covid). "Common Core" problems solving strategies are assumed and may not be familiar to teachers in a middle/junior high setting. A demonstration on how Google Translate would work in the software was not provided. The Fast ForWord program, for significantly below grade level students (cited in 6<sup>th</sup> FM45), could not be located. "Implementations not using MATHia", cited in the 6<sup>th</sup> grade edition on 3J, was also inaccessible. A collaborative learning model curriculum such as this fails to address absences that can last anywhere from a few days to 2 weeks in length.

- Other Notes: Online petitions exist that claim this curriculum can be confusing, stressful, that online sessions can take anywhere from 6 minutes to 4 hours to complete, cheats/hacks/and tips to corrupt the software are available online, step-by-step instructions are lacking and that the curriculum is designed to make a state look better on paper and get better state testing scores.
- 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<sup>®</sup> 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.

## Middle School Math Solutions Course 2

- **Grade 7**

- **Strengths:** The Carnegie Learning curriculum combines “consumable textbooks and MATHia software to support student-centered, collaborative math learning and deep conceptual understanding.” Students need to demonstrate mastery on each knowledge component underlying a particular topic before they can proceed to the next topic. Curriculum is designed to look like state testing questions. The design and structure of each module is designed to establish a foundation with numbers to prepare students for the rest of the course. Graphic organizers are regularly provided to aid in instruction as well as being proven to benefit English Language Learners. Skills practice worksheets are available to those with limited online access. Teachers do the math first in the teacher’s edition to help develop detailed notes in planning each lesson (valuable for new/incoming teachers). Differentiation strategies and suggestions for teacher are provided in every lesson. Scaffolding in presentation is evident with each lesson, providing justification for learning the next math concept in each subsequent lesson that follows. It is clear that **ALL** of the Standards for Mathematical Practice are being addressed simply in how the curriculum has been structured. **All** of the Idaho Content Standards are represented in the Carnegie Learning curriculum.
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schooling due to Covid). “Common Core” problems solving strategies are assumed and may not be familiar to teachers in a middle/junior high setting. A demonstration on how Google Translate would work in the software was not provided. The Fast ForWord program, for significantly below grade level students (cited in 6<sup>th</sup> FM45), could not be located. “Implementations not using MATHia”, cited in the 7<sup>th</sup> grade edition on 3H, was also inaccessible. A collaborative learning model curriculum such as this fails to address absences that can last anywhere from a few days to 2 weeks in length.

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MATHia<sup>®</sup> 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.

### **Middle School Math Solutions Course 3**

- **Grade 8**

- Strengths: The Carnegie Learning curriculum combines “consumable textbooks and MATHia software to support student-centered, collaborative math learning and deep conceptual understanding.” Students need to demonstrate mastery on each knowledge component underlying a particular topic before they can proceed to the next topic. Curriculum is designed to look like state testing questions. The design and structure of each module is designed to establish a foundation with numbers to prepare students for the rest of the course. Graphic organizers are regularly provided to aid in instruction as well as being proven to

benefit English Language Learners. Skills practice worksheets are available to those with limited online access. Teachers do the math first in the teacher's edition to help develop detailed notes in planning each lesson (valuable for new/incoming teachers). Differentiation strategies and suggestions for teacher are provided in every lesson. Scaffolding in presentation is evident with each lesson, providing justification for learning the next math concept in each subsequent lesson that follows. It is clear that **ALL** of the Standards for Mathematical Practice are being addressed simply in how the curriculum has been structured. **All** of the Idaho Content Standards are represented in the Carnegie Learning curriculum.

- Weaknesses: Given that 40% of the curriculum comes from the MATHia software (the remaining 60% from the consumable workbook), licensing would need to be renewed after your license expires in order for the curriculum to remain functional. Intensive district training appears to be a must. One course cannot be taught in isolation (6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade material build on one another). Complete buy-in from all 6<sup>th</sup> through 8<sup>th</sup> teachers appears necessary for this type of curriculum to succeed. Material may be too "deep" for extremely low students who struggle in reading and writing (of which there is a great deal!). A lot of home help seems expected with the software and assumes internet connectivity at home. This curriculum could be difficult to use for long-term subs or new teachers to a classroom that haven't had intensive training on the material (again, intensive, regular, on-going training appears to be a must if the curriculum is to be used effectively). Laptops would be needed for every student in a classroom. It is assumed a district has a solid internet network. Independent mastery hinges on access to the MATHia software (it is where the repletion is provided for mastery); practice seems minimal in the textbook. Assumes incoming 8<sup>th</sup> graders have mastered certain concepts with little to no remediation (a valid concern where some students have missed up to 2 years of schooling due to Covid). "Common Core" problems solving strategies are assumed and may not be familiar to teachers in a middle/junior high setting. A demonstration on how Google Translate would work in the software was not provided. The Fast ForWord program, for significantly below grade level students (cited in 6<sup>th</sup> FM45), could not be located. "Implementations not using MATHia", cited in the 8<sup>th</sup> grade edition on 3J, was also inaccessible. A collaborative learning model curriculum such as this fails to address absences that can last anywhere from a few days to 2 weeks in length. Other Notes: Online petitions exist that claim this curriculum can be confusing, stressful, that online sessions can take anywhere from 6 minutes to 4 hours to complete,

cheats/hacks/and tips to corrupt the software are available online, step-by-step instructions are lacking and that the curriculum is designed to make a state look better on paper and get better state testing scores.

- Key Features: MATHbook Student Edition (print or digital)

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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 Course 1

- **Grade 6**

- Strengths: This curriculum is strong in that it encourages collaboration, teamwork, revising to improve, communication (written and oral) including critiquing others and justification of their own claims. Additionally, questions are mostly scenario-based questions that encourage perseverance.
- Weaknesses: This curriculum is weak in that there is no specific vocabulary building activities, very little support for reading at different levels (other than teacher and team support), very little support for prior grade level gaps in learning.
- Other Notes: One question was found that involves climate change, which may be a controversial subject in some districts. Also, the curriculum has some questions that use Base 10 blocks and/or algebra tiles which may be an added expense for some districts that may not already have these materials.
- Key Features: On a daily basis, students using CPM instructional materials employ problem solving strategies, question, investigate, analyze critically, gather and construct evidence, and communicate rigorous arguments to justify their thinking; students are active participants in their learning. With the CPM instructional materials, students can tackle mathematical ideas set in everyday contexts to help them make sense of

otherwise abstract principles. Ideas are presented using manipulatives, models, and visual aids whenever possible. Students are taught how to gather and organize information about problems, break problems into smaller parts, and look for patterns that lead to solutions. Students often learn in collaboration with others, sharing information, expertise, and ideas. The principal teaching strategies of this course are designed specifically to support diverse students of all ability levels in a safe engaging environment.

The Core Connections courses adhere to a balance between conceptual and procedural fluency, focus, and emphasis. Teacher and student materials offer flexibility for a wide range of student abilities. Content and practice standards are integrated at the lesson level. Each course has complete student and teacher materials (print and eBook versions), with support for parents. Teacher editions have scope, sequence, pacing guides, complete lesson plans, balanced activities, ELL support, enrichment, discussion of lessons and student behaviors (“Suggested Lesson Activities,” “Closure,” “Universal Access”), manipulatives, technology components (when appropriate).

Consistent with the requests frequently heard from leaders of business and industry, the CPM materials routinely have students solve non-routine problems. That is, students develop their synthesis and analytical skills so that they unhesitatingly make connections between varied mathematical concepts to solve problems they have never seen before. Students build life-long strategies for solving problems that are applicable in most academic disciplines, the workplace, and daily life.

As students do rich mathematics with CPM, they communicate their thinking and understanding, formally and informally, in writing and orally. Communication helps to clarify a student’s thinking, and prepares them for formally sharing their ideas in the workplace. The team setting provides formal and informal feedback, which encourages revision of their work. Communication provides an opportunity for teachers and peers to assess students’ thinking and depth of understanding. In turn, all students are enabled to improve the quality of their work.

### **Core Connections Course 2-3**

- **Grade 7-8**

- Strengths: This curriculum is strong in that it encourages collaboration, teamwork, revising to improve, communication (written and oral) including critiquing others and justification of their own claims. Additionally, questions are mostly scenario-based questions that encourage perseverance.
- Weaknesses: This curriculum is weak in that there is no specific vocabulary building activities, very little support for reading at different levels (other than teacher and team support), very little support for prior grade level gaps in learning.

- Other Notes: The curriculum has some questions that use Base 10 blocks and/or algebra tiles which may be an added expense for some districts that may not already have these materials.
- Key Features: On a daily basis, students using CPM instructional materials employ problem solving strategies, question, investigate, analyze critically, gather and construct evidence, and communicate rigorous arguments to justify their thinking; students are active participants in their learning. With the CPM instructional materials, students can tackle mathematical ideas set in everyday contexts to help them make sense of otherwise abstract principles. Ideas are presented using manipulatives, models, and visual aids whenever possible. Students are taught how to gather and organize information about problems, break problems into smaller parts, and look for patterns that lead to solutions. Students often learn in collaboration with others, sharing information, expertise, and ideas. The principal teaching strategies of this course are designed specifically to support diverse students of all ability levels in a safe engaging environment.

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## Curriculum Associates

### i-Ready Classroom Mathematics

- **Grade 6-8**

- Strengths: i-Ready provides a predictable routine that is evident in each lesson. This includes learning targets, language objectives, labeled mathematical practices, and standard breakdown. The technology platform is well made and easy to use. i-Ready addresses all the standards and mathematical practices and follows a clear scope and sequence.
- Weaknesses: Some of the workbook pages have a lot of text on them and not a lot of room for students to respond with their answers.
- Key Features: i-Ready Classroom Mathematics is grounded in our philosophy that all students deserve equitable access to mathematics instruction. The program enables teachers to engage students and provides powerful teaching tools for strengthening conceptual understanding through a teacher-led, discourse-based routine. i-Ready Classroom Mathematics uses diagnostic data to provide teachers with a clear snapshot of each student’s understanding, allowing them to deliver on-level, intervention, and enrichment instruction.  
i-Ready Classroom Mathematics provides a wealth of instructional resources to support teachers in effective implementation, including assessment tools and support for differentiated instruction. The online Teacher Toolbox, which is part of the Teacher’s Guide with Digital Access package, provides complete access to all grade-level resources. The intended course level for the student components is on-grade level with support for below-grade level and above-grade level students. Although the program is designed for on-level ability, the student digital components to i-Ready Classroom Mathematics provides an adaptive diagnostic and resources to personalize instruction.

## Explore Learning

### Reflex

- **Grades 6-8**

- Strengths: The strengths of this program are its online adaptive format and its usefulness in providing opportunities for students to practice and improve their math factual fluency. This program is available in English, Spanish, and French. The online platform is cloud-based and aesthetically pleasing and easy to navigate.



- Weaknesses: The weaknesses of this program include conceptual understanding of math concepts and standards. It is strictly a fact fluency program and does not allow application of facts or put facts in real-world context. It is very game-like and focuses on rote memorization only.
- Key Features: ExploreLearning Reflex® is a revolutionary research-based system that enables students of all abilities in grades 2-8 to develop instant, effortless recall of math facts in all four operations.

Key Reflex Features:

- Adaptive and individualized system continuously monitors each student's performance to create the optimal experience
- Intuitive and powerful reporting gives educators everything they need to easily monitor and support student progress
- Anytime, anywhere access lets students build fluency wherever there is Internet access
- Fun, game-based approach keeps students coming back for more
- Outstanding results show students of all ages and ability levels make great gains

## Gizmos

- **Grades 6-8**

- 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

- **Grade 6-8**
  - Strengths: HMH provides a predictable routine that is evident in each lesson. This includes learning targets, language objectives, labeled mathematical practices, and standard breakdown. The technology platform is well made and easy to use. HMH addresses all the standards and mathematical practices and follows a clear scope and sequence.
  - Weaknesses: The student workbook durability for middle school students seems like it needs improvement to last the whole year without pages falling out. Some of the workbook pages have a lot of text on them and not a lot of room for students to respond with their answers.
  - Key Features: The ***Into Math*** program's methodology generates deeper understanding of concepts, creates stronger conceptual-to-procedural connections, builds fluency, and embeds real-world application opportunities throughout. ***Into Math*** 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 Math***, these facets are woven into the fabric of every lesson.  
***Into Math*** 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 Math** 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 Math** 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 Math** 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 Math** 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 Math**, 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 Math** and gave it their highest rating—“Meets Expectations”—for every Gateway (Focus and Coherence, Rigor and Mathematical Practices, and Usability). In other words, **Into Math** 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 Math*** has the power to take students to new levels of achievement.

## Imagine Learning

### Imagine Learning Illustrative Mathematics

- **Grade 6-8**
  - Strengths: This program gives great background knowledge, so teachers can know what problems to look for. They do a fantastic job of showing how each standard build on the last and how it will progress forward. The project-based model allows students to apply math to real-world situations which makes it more engaging to a 6<sup>th</sup>, 7<sup>th</sup>, or 8<sup>th</sup>, grade brain. Every lesson has practice problems that are easily used for a quick assessment. The curriculum builds conceptual understanding before moving students into the procedural aspects of math. In the assessment, when there is a multiple-choice question, teachers are instructed why students might have selected each of the incorrect answers.
  - Weaknesses: This program only has access to English and Spanish. Support for students with disabilities and English language learners was lacking resources. When students are struggling, this program does not give problems to help build those struggling students up to the level they need to be. You do not have the option to buy the manipulatives teacher must create the geometry toolkit for their classroom.
  - 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

### Imagine Learning Illustrative Mathematics Accelerated

- **Grade 6-7**
  - Strengths:
    - This curriculum does a very good job to help a teacher better understand the students' learning process and difficulties that can happen. It is very simple and direct in the teaching and learning process in the materials and content.

- Conceptual understanding is clearly the goal of the curriculum that teacher and students will achieve through the many activities and discussions.
  - The workbook setup makes the classroom the central place for learning.
  - The curriculum has many adaptations that can be used to shorten the topics.
- Weaknesses:
  - This curriculum has several optional parts that if skipped would leave gaps in the student understanding.
  - The assessment process is extremely brief and would not provide enough data to really help a teacher in gap filling that a student may need.
  - The student workbook does not include any color printing and may not be very engaging for visual learners.
  - The assessment questions are at a deep level with no stepping stones for where a student may struggle in their understanding.
- Other Notes:
  - The formatting of this curriculum may be a struggle for some students.
  - Disabilities and meeting students' needs do not seem to be a high focus of the curriculum or the additional materials.
- 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 Math

- **Grade 6**
  - Strengths:
    - The scope and sequence of items flow from one main idea to another across the course work and from one grade to the next grades.
    - All grade level standards are included throughout the course and aligned appropriately.

- Overall, this is a well thought out work for the scope, sequence within each course and to the next.
  - Cross checked standards in the courses with Idaho Content standards and all standards are within the courses.
  - Items are colorful and appealing to the reader.
  - Many opportunities for small group, whole group, or individual work.
  - Lessons provided some purposeful questions for teachers given different levels of students - as a result when a student is stuck on something or needs more advanced there are a few questions to prompt students.
  - Materials include life examples and situations that students can relate to.
  - Digital textbook has audio with speed control- computer voice.
  - Mathematical Practices opportunity for students are integrated throughout the courses.
- Weaknesses:
- Long division algorithm is a mastery standard for 6<sup>th</sup> grade. There are a few lessons that go in depth for understanding. The few direct lessons are designed as a repeat of procedure and have little opportunity for student engagement in math practices.
  - The digital platform is not user friendly and quite difficult to find the corresponding activities for differentiated learning and levels of understanding.
  - For Spanish alternatives, only offered at this time for student eBook. No other digital resources or teacher edition had Spanish available.
  - A few standards for additional or support have more lessons than some major or mastery standards.
- 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, Arrive Math Booster, LearnSmart are connected in TE prompts. A robust number of Review and Extension resources are also online.

## Reveal Math

- **Grade 7**

- Strengths:

- The scope and sequence of items flow from one main idea to another across the course work and from one grade to the next grades.
- All grade level standards are included throughout the course and aligned appropriately.
- Overall, this is a well thought out work for the scope, sequence within each course and to the next.
- Cross checked standards in the courses with Idaho Content standards and all standards are within the courses.
- Items are colorful and appealing to the reader.
- Many opportunities for small group, whole group, or individual work.
- Lessons provided some purposeful questions for teachers given different levels of students - as a result when a student is stuck on something or needs more advanced there are a few questions to prompt students.
- Materials include life examples and situations that students can relate to.
- Digital textbook has audio with speed control- computer voice.
- Mathematical Practices opportunity for students are integrated throughout the courses.
- Course 2 is heavily pushing and supporting the relationships among tables, graphs, equations, and context throughout.

- Weaknesses:

- The digital platform is not user friendly and quite difficult to find the corresponding activities for differentiated learning and levels of understanding.
- For Spanish alternatives, only offered at this time for student eBook. No other digital resources or teacher edition had Spanish available.
- A few standards for additional or support have more lessons than some major or mastery standards.

- 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, Arrive Math Booster, LearnSmart are connected in TE prompts. A robust number of Review and Extension resources are also online.

## Reveal Math

- **Grade 8**

- Strengths:

- The scope and sequence of items flow from one main idea to another across the course work and from one grade to the next grades.
- All grade level standards are included throughout the course and aligned appropriately.
- Overall, this is a well thought out work for the scope, sequence within each course and to the next.
- Cross checked standards in the courses with Idaho Content standards and all standards are within the courses.
- Items are colorful and appealing to the reader.
- Many opportunities for small group, whole group, or individual work.
- Lessons provided some purposeful questions for teachers given different levels of students - as a result when a student is stuck on something or needs more advanced there are a few questions to prompt students.
- Materials include life examples and situations that students can relate to.
- Digital textbook has audio with speed control- computer voice.
- Mathematical Practices opportunity for students are integrated throughout the courses.
- This course has some better laid out ideas, examples, and practices for angle relationships and parallel lines cut by transversal than seen in other curriculum books.

- Weaknesses:

- The digital platform is not user friendly and quite difficult to find the corresponding activities for differentiated learning and levels of understanding.
- For Spanish alternatives, only offered at this time for student eBook. No other digital resources or teacher edition had Spanish available.
- A few standards for additional or support have more lessons than some major or mastery standards.



- **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, Arrive Math Booster, LearnSmart are connected in TE prompts. A robust number of Review and Extension resources are also online.

## Illustrative Mathematics

- **Grade 6-8**

- **Strengths:**
  - Curriculum teaches all 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade standards.
  - The technology is limited but easy to use and navigate through.
  - Digital tools can be used to support distance learning through e-submitted assignments.
  - The student digital text can be read aloud for students who struggle with reading.
- **Weaknesses:**
  - There does not seem to be many Tier 2/Tier 3 supports.
  - Missing a diagnostic tool/assessment.
- **Other Notes**
  - Efforts were taken to make sure the curriculum was sensitive to multiple nationalities but there was not any representation of Indigenous People of North America.
  - No references are made about gender identity that would be problematic to Idaho families.
- **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

- **Grade 6-8**
  - Strengths: Open-Up Resources thoroughly covers all of the standards for the 6th grade curriculum. There is sufficient scaffolding, rigor, and coherence. The online platform aligns with the printed materials providing support for the teacher, student, and parent. The curriculum has real life examples and connections to help students understand the importance of the math concepts. The teacher edition and student edition are color coordinated and separated by Unit. There are 9 teacher's editions, and 9 correlating student workbooks. The structure of the layout is cohesive with standards and math practices embedded within each lesson. Student workbooks provide sufficient practice both teacher-led, and independent allowing students to practice concepts as a group, with partners, and individually.
  - Weaknesses: Teacher's manuals are paperback and include 9 books. They are not spiral bound which may make it difficult to keep open to the lesson page when teaching. There are not many online student resources to use as tools for learning and interacting.
  - Other Notes: The curriculum seems to be inclusive of others with pictures, names, and examples. The teacher edition includes EL notes to help support English language learners in the classroom.
  - Key Features: Open Up Resources 6-8 Math is a problem-based curriculum, where students work on carefully crafted and sequenced mathematics problems

during most of the instructional time. Teachers help students understand the problems and guide discussions to ensure the mathematical takeaways are clear to all. Some concepts and procedures follow from definitions and prior knowledge so students can, with appropriately constructed problems, see this for themselves. In the process, they explain their ideas and reasoning and learn to communicate mathematical ideas. The goal is to give students just enough background and tools to solve initial problems successfully, and then set them to increasingly sophisticated problems as their expertise increases.

## Savvas

### enVision Mathematics

- **Grade 6**

- **Strengths:** Savvas enVision Grade 6 covers all the standards for the 6th grade curriculum with scaffolding, rigor, and coherence. The online platform ties in well with the printed materials to create a robust curriculum for teacher and student use. The curriculum has real life examples and connections to help students understand the importance of the math concepts. The teacher edition and student edition connect well to each other to help switch between books with ease. There are inquiry-based problems to help students investigate. The language development charts help connect math concepts to language concepts to help reinforce understanding of vocabulary.
- **Weaknesses:** Savvas enVision grade 6 does not provide enough workspace for some problems involving models and math justification. In order to address this issue students may need a math journal to have work space for problems. The curriculum is more traditional and is very heavy on providing examples and direct instruction before allowing students to explore their own mathematical thinking and strategies. There are several typos throughout the resources.
- **Other Notes:** The curriculum seems to be inclusive of others with pictures, names, and examples. The teacher edition includes EL notes to help support English language learners in the classroom.
- **Key Features:** *enVision Mathematics Grades 6-8* 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 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 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 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 interactivities 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.

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### **For Questions Contact**

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