

Open Educational Resources (OER) 6-12 Mathematics

Publisher	Title of Material	Author	License	Grade Level	Location	Recommendation
EngageNY	EngageNY 6	EngageNY	CC Attribution Non-Commercial Share-Alike License	6	https://www.engageny.org/resource/grade-6-mathematics	Basic
<p>Notes: License information- https://www.engageny.org/terms-of-use</p> <p>FOCUS- Engage NY is securely based in the standards. The teacher's materials provide extensive evidence of the standards each module and lesson are based upon. Teacher materials are thorough and easy to navigate. Lessons are incredibly thorough and provide extensive practice on content and skill development.</p> <p>COHERENCE- Lessons are neatly organized, set up in a logical, sequential order, and are both teacher and student friendly. The curriculum does provide the teacher with standards the lessons are based on, however, that information is not provided to the student within the lesson materials. Lessons incorporate a variety of methods of instruction, as well as require students to think critically, involve mathematical practice standards, and continue to develop reasoning skills. Assessments provide grading rubrics that are standards based and are easy to use. Engage NY has developed a consistent, thorough, and intentional curriculum.</p> <p>RIGOR- Engage NY provides a rigorous curriculum that is standard based that builds from year to year in complexity. Students are expected to work collaboratively on practice problems and exercises as well as reflect with peers on discussion questions and activities. The curriculum provides additional activities and skill builders for students to receive extra practice and to explore more complex problems and real life scenarios.</p> <p>CONCEPTUAL UNDERSTANDING- Lessons are focused on the standards and incorporate real-life, real-world applications. Students are expected to learn the content within the lesson, demonstrate mastery, and apply their understanding to the exploratory problem, exit tickets, and problem sets, and mid-module tasks.</p> <p>MATHEMATICAL PRACTICES- EngageNy is a curriculum that uses the mathematical practices throughout the lessons and tasks. Unfortunately each lessons do not ask the students to use all mathematical practices.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- The curriculum is consistent therefore predictable and accessible for students within the special populations. Key terms are provided in each lesson and would be able to be pre-taught and retaught for struggling learners. Formative assessments are embedded daily allowing a teacher to gauge understanding regularly. The publisher is working to develop resources to assist with diverse learners, and to be able to make the curriculum accessible to all learners. The resources have not yet been released to the public. The pace of this curriculum moves swiftly, therefore not permitting a lot of time for remediation, which may be difficult for students who struggle to master a concept the first time it is presented.</p> <p>STRENGTHS- -Thorough, intentional curriculum that is standards-based -very detailed teacher materials and curriculum guides -all materials are free, printable and available online -lessons are sequential and build from grade to grade</p> <p>WEAKNESSES- One weakness in EngageNy is the lack of ELL support for those students that struggle with the language. The differentiation piece is something that experience teachers can work around. A second weakness is the website does not require a specific login for student material only. Therefore the students have access to all assessments, task, homework and rubrics and answer keys.</p>						

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<p>Notes: License information- https://www.engageny.org/terms-of-use</p> <p>FOCUS- Engage NY is securely based in the standards. The teacher's materials provide extensive evidence of the standards each module and lesson are based upon. Teacher materials are thorough and easy to navigate. Lessons are incredibly thorough and provide extensive practice on content and skill development.</p> <p>COHERENCE- Lessons are neatly organized, set up in a logical, sequential order, and are both teacher and student friendly. The curriculum does provide the teacher with standards the lessons are based on, however, that information is not provided to the student within the lesson materials. Lessons incorporate a variety of methods of instruction, as well as require students to think critically, involve mathematical practice standards, and continue to develop reasoning skills. Assessments provide grading rubrics that are standards based and are easy to use. Engage NY has developed a consistent, thorough, and intentional curriculum.</p> <p>RIGOR- Engage NY provides a rigorous curriculum that is standard based that builds from year to year in complexity. Students are expected to work collaboratively on practice problems and exercises as well as reflect with peers on discussion questions and activities. The curriculum provides additional activities and skill builders for students to receive extra practice and to explore more complex problems and real life scenarios.</p> <p>CONCEPTUAL UNDERSTANDING- Lessons are focused on the standards and incorporate real-life, real-world applications. Students are expected to learn the content within the lesson, demonstrate mastery, and apply their understanding to the exploratory problem, exit tickets, and problem sets, and mid-module tasks.</p> <p>MATHEMATICAL PRACTICES- EngageNy is a curriculum that uses the mathematical practices throughout the lessons and tasks. Unfortunately each lessons do not ask the students to use all mathematical practices.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- The curriculum is consistent therefore predictable and accessible for students within the special populations. Key terms are provided in each lesson and would be able to be pre-taught and retaught for struggling learners. Formative assessments are embedded daily allowing a teacher to gauge understanding regularly. The publisher is working to develop resources to assist with diverse learners, and to be able to make the curriculum accessible to all learners. The resources have not yet been released to the public. The pace of this curriculum moves swiftly, therefore not permitting a lot of time for remediation, which may be difficult for students who struggle to master a concept the first time it is presented.</p> <p>STRENGTHS- -Thorough, intentional curriculum that is standards-based -very detailed teacher materials and curriculum guides -all materials are free, printable and available online -lessons are sequential and build from grade to grade</p> <p>WEAKNESSES- One weakness in EngageNy is the lack of ELL support for those students that struggle with the language. The differentiation piece is something that experience teachers can work around. A second weakness is the website does not require a specific login for student material only. Therefore the students have access to all assessments, task, homework and rubrics and answer keys.</p>						

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<p>Notes: License information- https://www.engageny.org/terms-of-use</p> <p>FOCUS- Engage NY is securely based in the standards. The teacher's materials provide extensive evidence of the standards each module and lesson are based upon. Teacher materials are thorough and easy to navigate. Lessons are incredibly thorough and provide extensive practice on content and skill development.</p> <p>COHERENCE- Lessons are neatly organized, set up in a logical, sequential order, and are both teacher and student friendly. The curriculum does provide the teacher with standards the lessons are based on, however, that information is not provided to the student within the lesson materials. Lessons incorporate a variety of methods of instruction, as well as require students to think critically, involve mathematical practice standards, and continue to develop reasoning skills. Assessments provide grading rubrics that are standards based and are easy to use. Engage NY has developed a consistent, thorough, and intentional curriculum.</p> <p>RIGOR- Engage NY provides a rigorous curriculum that is standard based that builds from year to year in complexity. Students are expected to work collaboratively on practice problems and exercises as well as reflect with peers on discussion questions and activities. The curriculum provides additional activities and skill builders for students to receive extra practice and to explore more complex problems and real life scenarios.</p> <p>CONCEPTUAL UNDERSTANDING- Lessons are focused on the standards and incorporate real-life, real-world applications. Students are expected to learn the content within the lesson, demonstrate mastery, and apply their understanding to the exploratory problem, exit tickets, and problem sets, and mid-module tasks.</p> <p>MATHEMATICAL PRACTICES- EngageNy is a curriculum that uses the mathematical practices throughout the lessons and tasks. Unfortunately each lessons do not ask the students to use all mathematical practices.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- The curriculum is consistent therefore predictable and accessible for students within the special populations. Key terms are provided in each lesson and would be able to be pre-taught and retaught for struggling learners. Formative assessments are embedded daily allowing a teacher to gauge understanding regularly. The publisher is working to develop resources to assist with diverse learners, and to be able to make the curriculum accessible to all learners. The resources have not yet been released to the public. The pace of this curriculum moves swiftly, therefore not permitting a lot of time for remediation, which may be difficult for students who struggle to master a concept the first time it is presented.</p> <p>STRENGTHS- -Thorough, intentional curriculum that is standards-based -very detailed teacher materials and curriculum guides -all materials are free, printable and available online -lessons are sequential and build from grade to grade</p> <p>WEAKNESSES- One weakness in EngageNy is the lack of ELL support for those students that struggle with the language. The differentiation piece is something that experience teachers can work around. A second weakness is the website does not require a specific login for student material only. Therefore the students have access to all assessments, task, homework and rubrics and answer keys.</p>						

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EngageNY	Engage NY Algebra 1	EngageNY	CC Attribution Non-Commercial I Share-Alike License	9-12	https://www.engageny.org/resource/high-school-algebra-i	Comprehensive
<p>Notes: License information- https://www.engageny.org/terms-of-use</p> <p>FOCUS- All Materials are aligned with Common Core Mathematics Standards for Algebra I and have students doing non negotiable prerequisites throughout the new concept acquisition. All of the number and quantity and most algebra standards are addressed in Module 1, Statistics and Probability non negotiables are in Module 2. Modules 3, 4, 5 have the remaining function and algebra non negotiables embedded in their content.</p> <p>COHERENCE- Program is part of a designed curriculum that has a concept map that defines learning for students from Kindergarten to PreCalculus in a yearly progression. The content is well aligned and ambitious.</p> <p>RIGOR- Materials require students to interpret concepts, not just replicate steps completed by others. Every lesson is rigorous even if the concept is not particularly tough. Students have to engage with the material and make sense of a variety of situations.</p> <p>CONCEPTUAL UNDERSTANDING- All work is presented with a conceptual framework. In Module Two students are taught statistical inference and asked to figure out how to change.</p> <p>MATHEMATICAL PRACTICES- All eight of the mathematical standards are addressed in the content. Not all are addressed in each lesson. Materials have a recurring theme of students making sense of novel problems and persisting in difficult content. Students are regularly asked to model situations and apply new learning with an attention to precision.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- Spanish language supports are not part of the Algebra I content although the program provides this feature up through 8th grade. Materials have some online adaptations, Materials are available in braille, large print and audiotape. Other online accessibility options are not stated overtly, but the company promises accessibility for all under IDEA.</p> <p>STRENGTHS- It is online and much of the program is free. Program has supports for parents online. Many lessons have videos to introduce the topic and provide the task. The program has PD for teachers to help teachers learn the lesson and prepare to teach the content in a common core manner. Each lesson has an introduction to the concept, a task, an exit ticket and additional practice. At certain points the materials also have pre-planned assessments that come with pre-created rubrics to grade students. Has alignment to a variety of high stakes tests. Program has manipulatives for students.</p> <p>WEAKNESSES- Did not see an interactive online portion. Additional problems are non-existent. Limitations on what you can post online. Teachers must make sure to attribute the materials to EngageNY. If teachers modify materials and post online, EngageNY can use teacher materials with out reimbursement or acknowledgement of the source.</p> <p>OTHER- Most people view this program as an only online system. It is possible to order student workbooks and teacher books to go along with this program.</p>						

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EngageNY	Engage NY Geometry	EngageNY	CC Attribution Non-Commercial Share-Alike License	9-12	https://www.engageny.org/resource/high-school-geometry	Comprehensive
<p>Notes: License information- https://www.engageny.org/terms-of-use</p> <p>FOCUS- All materials are aligned with the CCSS for geometry. The majority of the widely applicable prerequisite standards are presented in modules one and two and reinforced in modules three, four and five.</p> <p>COHERENCE- The program is part of a designed curriculum that has a concept map that defines learning for students from Kindergarten to PreCalculus in a yearly progression. The content is well-aligned and ambitious.</p> <p>RIGOR- The materials require students to interpret concepts and not just replicate steps completed by others. Every lesson is rigorous even if the concept is not particularly tough. Students have to engage with the materials to make sense of a variety of situations.</p> <p>CONCEPTUAL UNDERSTANDING- All work is presented with a conceptual framework. Students are consistently constructing argument to justify their thinking or critique the thinking of others. Arguments are made using algebra, drawings or proofs.</p> <p>MATHEMATICAL PRACTICES- All eight mathematical standards are addressed in the content. Not all are addressed in each lesson. Materials have a recurring theme with students making sense of novel problems and persisting in a difficult context. Students are regularly asked to model situations and apply new learning with an attention to precision.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- Spanish language supports are not part of the Algebra I or Geometry content although the program provides this feature up through 8th grade. Materials have some online adaptations. Materials are available in Braille, large print, and audio tape. Other online accessibility options are not stated overtly, but the company promises accessibility for all under IDEA. Zip files of content are available in Spanish, Arabic, Simple Chinese and Traditional Chinese.</p> <p>STRENGTHS- Engage NY is online and much of the program is free. The program has supports for parents online. Many lessons have videos to introduce the topic to students and provide the task. The program has Professional Development for teachers to help teachers learn the lesson and prepare to teach the content in a common core manner. Each lesson has an introduction to the concept, a task, and exit ticket and additional practice. At certain points the materials also have pre-planned assessments that come with pre-created rubrics to grade student work. The content has alignment to a variety of high stakes tests. The program also has manipulatives for students.</p> <p>WEAKNESSES- Did not see an interactive portion on line. Additional problems are non-existent. There are limitations on what you can post online. All materials must be attributed to Engage NY. If teachers modify materials and post them on line, Engage NY can use the teacher materials without reimbursement or acknowledgement of the source.</p> <p>OTHER- Most people view this program as only an online system. It is possible to order student workbooks and teacher books to go along with this program.</p>						

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Math Vision Project	Math Vision Project Integrated 1	Math Vision Project	Creative Commons Attribution 4.0 International License	9-12	http://www.mathematicsvisionproject.org/secondary-mathematics-i-2016.html	Comprehensive
<p>Notes: License information- http://www.mathematicsvisionproject.org/faqs.html</p> <p>FOCUS- Tasks have multiple entry levels encouraging everyone to participate. Curriculum was written for the CCSSM. Huge focus on linear and exponential functions.</p> <p>COHERENCE- The material has a teaching cycle. The “Develop Understanding” tasks are designed as a teacher lead launch and discovery. Typically the material is new and the teacher facilitates the entire time. The “Solidify Understanding” tasks are where students spend more time using the knowledge they recently learned to solidify their understanding of the content. Students typically work in pairs or groups and there is less teacher involvement. “Practice Understanding” tasks are where students apply everything they’ve learned. There is almost no teacher involvement. Teacher notes are very detailed on how to launch and facilitate each task. Weakness: Heavy task based learning.</p> <p>RIGOR- Multiple representations and equivalency are a focus. All tasks have multiple entry levels. Homework consists of a constant spiral review of WAP and previously learned material. Tasks are not very rigorous. Teacher may want to supplement.</p> <p>CONCEPTUAL UNDERSTANDING- Huge focus on conceptual understanding. Students critic each others thought processes as well as sample student work to look for errors. Students are encouraged to work with groups or partners to explain each other’s thought process.</p> <p>MATHEMATICAL PRACTICES- Strengths: The 8 mathematical practices are present at all times throughout the material. All 8 mathematical practices are strongly adhered to throughout the curriculum and seemed to be a focus when the material was developed.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- Teacher notes have suggestions as to how to launch the task and facilitate the task. As well as how to modify the tasks for special populations.</p> <p>STRENGTHS-</p> <ol style="list-style-type: none"> 1. Written specifically for the CCSS. 2. Multiple entry levels for tasks, all students are active participants in the task. 3. Tasks are based on discovery learning and collaborative work, the teacher is a facilitator. <p>WEAKNESSES-</p> <ol style="list-style-type: none"> 1. Not enough drill for the developing concepts in the homework, needs to be supplemented. 2. Teacher materials and answer keys must be purchased. 3. Assessments must be purchased. 4. Currently, the curriculum is only available in English and Spanish. 6. Lacks extra resources. 7. No free PD available, but may be available for purchase. <p>OTHER-</p> <ol style="list-style-type: none"> 1. The curriculum is continuously reviewed and modified based on feedback from users. 2. The reviewers for this curriculum have first hand knowledge and experience of the curriculum and have personally implemented the curriculum in their classrooms for 4 years. 						

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Math Vision Project	Math Vision Project Integrated 2	Math Vision Project	Creative Commons Attribution 4.0 International License	9-12	http://www.mathematicsvisionproject.org/secondary-mathematics-ii.html	Comprehensive
<p>Notes: License information- http://www.mathematicsvisionproject.org/faqs.html</p> <p>FOCUS- Tasks have multiple entry levels encouraging everyone to participate. Curriculum was written for the CCSSM. The content is challenging for the students. Huge focus on quadratics the entire first semester. Second semester focuses on geometry concepts, including proofs, circles and right triangle trig.</p> <p>COHERENCE- The material has a teaching cycle. The “Develop Understanding” tasks are designed as a teacher lead launch and discovery. Typically the material is new and the teacher facilitates the entire time. The “Solidify Understanding” tasks are where students spend more time using the knowledge they recently learned to solidify their understanding of the content. Students typically work in pairs or groups and there is less teacher involvement. “Practice Understanding” tasks are where students apply everything they’ve learned. There is almost no teacher involvement. Teacher notes are very detailed on how to launch and facilitate each task. Weakness: Heavy task based learning.</p> <p>RIGOR- Multiple representations and equivalency are a focus. All tasks have multiple entry levels. Homework consists of a constant spiral review of WAP and previously learned material. Tasks are very rigorous.</p> <p>CONCEPTUAL UNDERSTANDING- Huge focus on conceptual understanding. Students critic each others thought processes as well as sample student work to look for errors.</p> <p>MATHEMATICAL PRACTICES- Strengths: The 8 mathematical practices are present at all times throughout the material. All 8 mathematical practices are strongly adhered to throughout the curriculum and seemed to be a focus when the material was developed.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- Teacher notes have suggestions as to how to launch the task and facilitate the task. As well as how to modify the tasks for special populations.</p> <p>STRENGTHS-</p> <ol style="list-style-type: none"> 1. Written specifically for the CCSS. 2. Multiple entry levels for tasks, all students are active participants in the task. 3. Tasks are based on discovery learning and collaborative work, the teacher is a facilitator. 4. The material is pretty rigorous. <p>WEAKNESSES-</p> <ol style="list-style-type: none"> 1. Not enough drill for the developing concepts in the homework, needs to be supplemented. 2. Teacher materials and answer keys must be purchased. 3. Assessments must be purchased. 4. Circles module is weak. Could use more circle relationships. 5. Currently, the curriculum is only in English. 6. Lacks extra resources. 7. No free PD available, but may be available for purchase. <p>OTHER-</p> <ol style="list-style-type: none"> 1. The curriculum is continuously reviewed and modified based on feedback from users. 2. The reviewers for this curriculum have first hand knowledge and experience of the curriculum and have personally implemented the curriculum in their classrooms for 4 years. 						

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Open Up Resources	Open Up 6	Illustrative Mathematics	CC Attribution 4.0 License	6	http://math.openupresources.org/	Comprehensive
<p>Notes: License information- http://math.openupresources.org/</p> <p>FOCUS- Each curriculum focused the majority of time on the work of the grade-level. When previous grade level standards were used, they were to build understanding of grade-level content.</p> <p>COHERENCE- Each of the three grade-level materials followed the Achieve the Core coherence map. Logical rational was used when choosing to include previous grade standards to support learning.</p> <p>RIGOR- These materials were written to cover the CCSS. The activities, problems, assessments, and performance tasks all focus on the major work of the grade, and build towards future learning. The problems posed are high-quality, real-world connections to the mathematics being taught. Discussion is encouraged, and teachers are provided with examples of questions to discuss.</p> <p>CONCEPTUAL UNDERSTANDING- Throughout the lessons in this curriculum a conscientious effort is given towards building student conceptual understanding of the topics being studied. Content is planned in such a way as to build from understanding topic to practicing procedures with a considerable amount of time spent in the initial developmental stages of this process. Students are not provided procedures until they have explored a topic.</p> <p>MATHEMATICAL PRACTICES- Students are required to justify and support their mathematical arguments during lecture, assignments, and assessments throughout the curriculum. They are called upon to critique the reasoning of others and describe how mathematical structures operate within the context of grade level questions and tasks. Students are asked to engage in mathematics in multiple ways beyond simply producing answers; the curriculum pushes for students to engage in all aspects of the SMPs. Students are introduced to the process of mathematical modeling (CCSSM, p. 72) slowly in unit one and the process is then expected throughout the rest of the units. It introduces students to a cognitive lens to view and examine mathematics. Vocabulary is just one aspect of this, but the importance of precision is emphasized as students' progress.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- There are suggestions for language supports. However, there are no specific materials or additional activities for English Language Learners. The materials are built using a Universal Design for Learning focus, but differentiation for students with special needs will need to be provided by the teacher.</p> <p>STRENGTHS- These materials match the CCSS very well, building conceptual understanding throughout the scope and sequence. The mathematical practice standards are addressed multiple times in a variety of activities. Pre-Assessments are designed to assess previous grade level concepts in order to predict success in the upcoming unit. Performance tasks are also provided at the end of each unit to give application practice. Materials are easy for students, teachers, and parents to navigate. The materials are streamlined and simple with high-quality visual representations and digital tools. Standards are embedded and linked with one another rather than stand-alone lessons for each standard. The lesson overviews provide background knowledge and content knowledge for teachers to support their instruction. There are multiple content delivery options including digital, printable, and a hybrid lessons. Digital devices are not required to enact the curriculum.</p> <p>WEAKNESSES- Materials are easily adapted to the needs of diverse learners. There are suggestions within lessons for how to do this. However, there are not separate workbooks or lessons to support English Language Learners or students with special needs. Some districts may find that they may want to supplement with additional practice problems.</p> <p>OTHER- The reviewers agreed unanimously that these materials provide a well-rounded highly rigorous curriculum.</p>						

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Open Up Resources	Open Up 7	Illustrative Mathematics	CC Attribution 4.0 License	7	http://math.openupresources.org/	Comprehensive
<p>Notes: License information- http://math.openupresources.org/</p> <p>FOCUS- Each curriculum focused the majority of time on the work of the grade-level. When previous grade level standards were used, they were to build understanding of grade-level content.</p> <p>COHERENCE- Each of the three grade-level materials followed the Achieve the Core coherence map. Logical rational was used when choosing to include previous grade standards to support learning.</p> <p>RIGOR- These materials were written to cover the CCSS. The activities, problems, assessments, and performance tasks all focus on the major work of the grade, and build towards future learning. The problems posed are high-quality, real-world connections to the mathematics being taught. Discussion is encouraged, and teachers are provided with examples of questions to discuss.</p> <p>CONCEPTUAL UNDERSTANDING- Throughout the lessons in this curriculum a conscientious effort is given towards building student conceptual understanding of the topics being studied. Content is planned in such a way as to build from understanding topic to practicing procedures with a considerable amount of time spent in the initial developmental stages of this process. Students are not provided procedures until they have explored a topic.</p> <p>MATHEMATICAL PRACTICES- Students are required to justify and support their mathematical arguments during lecture, assignments, and assessments throughout the curriculum. They are called upon to critique the reasoning of others and describe how mathematical structures operate within the context of grade level questions and tasks. Students are asked to engage in mathematics in multiple ways beyond simply producing answers; the curriculum pushes for students to engage in all aspects of the SMPs. Students are introduced to the process of mathematical modeling (CCSSM, p. 72) slowly in unit one and the process is then expected throughout the rest of the units. It introduces students to a cognitive lens to view and examine mathematics. Vocabulary is just one aspect of this, but the importance of precision is emphasized as students' progress.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- There are suggestions for language supports. However, there are no specific materials or additional activities for English Language Learners. The materials are built using a Universal Design for Learning focus, but differentiation for students with special needs will need to be provided by the teacher.</p> <p>STRENGTHS- These materials match the CCSS very well, building conceptual understanding throughout the scope and sequence. The mathematical practice standards are addressed multiple times in a variety of activities. Pre-Assessments are designed to assess previous grade level concepts in order to predict success in the upcoming unit. Performance tasks are also provided at the end of each unit to give application practice. Materials are easy for students, teachers, and parents to navigate. The materials are streamlined and simple with high-quality visual representations and digital tools. Standards are embedded and linked with one another rather than stand-alone lessons for each standard. The lesson overviews provide background knowledge and content knowledge for teachers to support their instruction. There are multiple content delivery options including digital, printable, and a hybrid lessons. Digital devices are not required to enact the curriculum.</p> <p>WEAKNESSES- Materials are easily adapted to the needs of diverse learners. There are suggestions within lessons for how to do this. However, there are not separate workbooks or lessons to support English Language Learners or students with special needs. Some districts may find that they may want to supplement with additional practice problems.</p> <p>OTHER- The reviewers agreed unanimously that these materials provide a well-rounded highly rigorous curriculum.</p>						

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Utah Middle School Math Project	Utah Middle School Math Project 7 th Grade	Hugo Rossi, Jonathan Bodrero, & Christine Walker	CC Attribution 4.0 License	7	http://utahmiddleschoolmath.org/7th-grade/	Basic
<p>Notes: License information- http://utahmiddleschoolmath.org/</p> <p>FOCUS- Topics covered in 8th grade standards are not assessed in this book. Chapter 5 touches on some geometry concepts but does not go into similarity, congruence, or transformations. All grade 7 standards are addressed. They are listed and identified at the beginning and throughout the lessons.</p> <p>COHERENCE- All chapters are focused on 7th grade standards. Concepts and standards are clearly identified. Does not include remediation for struggling students. However, the content appropriate for 7th grade level students.</p> <p>RIGOR- The curriculum addresses content and fluency. There are rigorous problems that require the knowledge and skills to meet the standards.</p> <p>CONCEPTUAL UNDERSTANDING- The curriculum addresses content and fluency. There are rigorous problems that require the knowledge and skills to meet the standards.</p> <p>MATHEMATICAL PRACTICES- All mathematical practices are identified, met, and implemented throughout the course.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- Material is presented in a way that all 7th grade students are able to access the skills and content. If students are struggling with concepts introduced in lower grades, material will need to be supplemented.</p> <p>STRENGTHS- This curriculum is very helpful in teaching 7th grade math. All content and math practice standards are addressed and identified. The problems are understandable and relevant to 7th graders. In particular, the math practice standards component is especially strong.</p> <p>WEAKNESSES- No assessments provided.</p>						

Publisher	Title of Material	Author	License	Grade Level	Location	Recommendation
Utah Middle School Math Project	Utah Middle School Math Project 8 th Grade	Hugo Rossi, Jonathan Bodrero, & Christine Walker	CC Attribution 4.0 License	8	http://utahmiddleschoolmath.org/8th-grade/	Basic
<p>Notes: License information- http://utahmiddleschoolmath.org/</p> <p>FOCUS- All Math Practice Standards are identified. Students are asked to explain their work and concepts and skills to be mastered are clear.</p> <p>COHERENCE- All chapters are focused on 8th grade standards. Concepts and standards are clearly identified. Does not include remediation for struggling students. However, the content appropriate for 8th grade level students.</p> <p>RIGOR- The curriculum addresses content and fluency. There are rigorous problems that require the knowledge and skills to meet the standards.</p> <p>CONCEPTUAL UNDERSTANDING- The curriculum addresses content and fluency. There are rigorous problems that require the knowledge and skills to meet the standards.</p> <p>MATHEMATICAL PRACTICES- All mathematical practices are identified, met, and implemented throughout the course.</p> <p>ACCESSIBILITY OF STANDARDS TO ALL STUDENTS- Material is presented in a way that all 8th grade students are able to access the skills and content. If students are struggling with concepts introduced in lower grades, material will need to be supplemented.</p> <p>STRENGTHS- This curriculum is very helpful in teaching 8th grade math. All content and math practice standards are addressed and identified. The problems are understandable and relevant to 8th graders. In particular, the math practice standards component is especially strong.</p> <p>WEAKNESSES- No assessments provided.</p>						