

2019 Instructional Material Summer Review Institute

Review Team Appraisal of Title

(K-8 Mathematics)

This appraisal form is provided for use by educators responsible for the selection of instructional materials for implementation with districts and charter schools across New Mexico to meet the needs of their student populations.

This appraisal form should be used in conjunction with the publisher provided Form D: Research Based Effectiveness Determination that supports this reviewed material which can be found on the Instructional Material Bureau website.

<https://webnew.ped.state.nm.us/bureaus/instructional-materials/the-adoption-cycle/>

IM Title	Imagine Learning Illustrative Mathematics Curriculum Grade 5 (Digital Only) 1 year	Publisher	Imagine Learning LLC
SE ISBN	9798885224215	TE ISBN	9798885224222
SW ISBN	9798885224239	Grade Level/Content	Grade 5 Mathematics

Core Material Designation (Core Material is - the comprehensive print or digital educational material, including basal material, which constitutes the necessary instructional components of a full academic course of study in those subjects for which the department has adopted content standards and benchmarks.)

Recommended X Recommended with Reservations _____ Not Recommended _____

Total Score

Reviewer #1 95% Reviewer #2 96% Reviewer #3 92% Average 94%

Standards Review - Materials are reviewed for alignment with the state adopted content standards, benchmarks and performance standards.

Reviewer #1 97% Reviewer #2 99% Reviewer #3 92% Average 96%

Materials align with grade level standards.
<p><i>Statements of appraisal and supporting evidence:</i> The material addresses all 5th grade math standards efficiently and most are covered in depth. Supporting content helps to enhance lessons and provide students extensive work with grade level content. Lessons include a description of vertical alignment to indicate prior skills, developing skills and those students are working toward. New skills are developed progressively throughout each lesson and unit, which gives students multiple experiences with the same grade level standards.</p>
Materials align to standards for mathematical practice.
<p><i>Statements of appraisal and supporting evidence:</i> The Standards for Mathematical Practice are evident throughout each unit in the material. Each lesson lists them at the top, and they are named and described in the teacher notes in the specific areas where they are addressed.</p>

Routines that are included throughout each lesson encourage students to engage in mathematical discourse and help to bring the standards of mathematical practice into each lesson.

Materials show aspects of rigor.

Statements of appraisal and supporting evidence:

Rigor and balance are evident throughout each unit. Fluency practice can be found in each lesson warm-up, in some lessons, and in center activities. Conceptual development and application are seen through the progression of lessons in each unit. A lesson is included at the end of each unit that focuses heavily on students applying all of the knowledge they've gained throughout the unit.

Math Content Review - Materials are reviewed for relevant criteria pertaining to the support for teachers and students in the specific reviewed content area.

Reviewer #1
89%

Reviewer #2
96%

Reviewer #3
89%

Average 92%

Materials are consistent with grade level content, supporting the intent of the delivery and understanding of mathematics.

Statements of appraisal and supporting evidence:

Lessons are formatted to include a warm-up, activities that build content knowledge, synthesis and cool-down activities. This format provides students multiple exposures to each of the grade level standards. The material incorporates many supports for teachers through videos, lesson narratives and notes, and detailed explanations of routines, diagrams, and teaching methods.

Materials support student learning of mathematics.

Statements of appraisal and supporting evidence:

The materials include a variety of routines and strategies that provide many opportunities for students to engage in the 5th grade math content. Although each lesson includes support for teacher instruction and questioning, there is minimal insight into possible student misconceptions to watch for and what to do about them. Mathematical discourse opportunities are embedded into every lesson through the instructional routines and activities.

All Content Review - Materials are reviewed for relevant criteria pertaining to the support for teachers and students in the material regarding the progression of the standards, lesson structure, pacing, assessment, individual learners and cultural relevance.

Reviewer #1
87%

Reviewer #2
88%

Reviewer #3
88%

Average 88%

Materials are consistent with the progressions in the standards.

Statements of appraisal and supporting evidence:

Each unit lists the standards that are addressed throughout the unit and specifically in each lesson. Lessons and units contain a summary of skills that are covered as well as correlate the current learning to previously learned skills and those that will be addressed in the future.

Materials foster coherence through connections at a single grade, where appropriate and required by the standards.

Statements of appraisal and supporting evidence:

The material is designed to be coherent within single lessons as well as across each overall unit. Units begin with concrete, hands-on exploration of concepts and move to abstract application of learning through research and projects.

Materials are well designed and take into account effective lesson structure and pacing.

Statements of appraisal and supporting evidence:

All lessons have a similar structure design. Lessons start with a warm-up to activate prior knowledge, activities for conceptual development, and a synthesis and cool-down to reflect on student learning. Each activity is also formatted in the same way with launch, work time, and synthesis. The material structure is coherent to help students make sense of the math.

Materials offer teachers resources and tools to collect ongoing data about student progress on the standards.

Statements of appraisal and supporting evidence:

The daily cool-downs are formative assessments that assess proficiency on individual standards. The section checkpoints and end-of-unit assessments are summative assessments that assess multiple standards that were addressed in each section or unit. Each unit also includes a pre-unit assessment as well as warm-ups to inform and guide teaching. Monitoring sheets can be used as a summative assessment to monitor student progress toward each of the learning goals. All assessments can be administered and graded using the online format. Each assessment evaluates all of the standards that have been addressed in the unit.

Materials give all students extensive opportunities and support to explore key concepts.

Statements of appraisal and supporting evidence:

Some of the lessons provide a video to enhance learning. Virtual and hands-on manipulatives are incorporated in many lessons. Lessons include strategies for working with and supporting students with disabilities as well as English Learners. Each unit includes an adaptation pack that offers lessons and activities for intervention as well as suggestions for priority instruction if necessary. Units contain optional center activities that help to support the key concepts and fluency standards.

Materials support effective use of technology to enhance student learning. Digital materials are accessible and available on multiple platforms.

Statements of appraisal and supporting evidence:

The material is compatible with multiple internet browsers and platforms. All lessons are available for online teaching through the Live Learn option. Assessments can be administered and scored online as well. Resources including virtual manipulatives, videos, and online assessments can be used to enhance student learning.

Materials can be easily customized for individual learners.

Statements of appraisal and supporting evidence:

The text-to-speech feature is available to any student. Using the Live Learn, teachers have the option to annotate on students' screens and to modify lessons and assignments as needed. Online student tasks include the option for voice recording as a student response.

Materials take into account cultural perspectives.

Statements of appraisal and supporting evidence:

The material includes multiple cultural perspectives throughout many of the lessons in the accompanying videos, real-world applications, and characters depicted. Routines that are incorporated into each lesson focus on students bringing their own perspectives and culture into student discussions.

Reviewer Professional Summation - These materials are reviewed by Level II and Level III educators from across New Mexico. The reviewers have brought their knowledge, experience and expertise into the review of these materials. They offer here their individual summary of the material as a whole.

Reviewer #97 background and experience: Level 3 teacher with a Dual License in Special Education and Elementary Education. I am EL certified and have 14 years of teaching experience at the elementary level.

Professional summary of material:

The 5th grade Illustrative Math material is a coherent material that provides ample exposure to all grade level content for all students. It is easy to navigate and offers many teacher supports that would simplify its implementation. Balance and rigor are evident in each lesson and each of the math practice standards are highlighted throughout the learning routines that are implemented daily. Each unit is engaging and progresses from a concrete conceptual focus to a more abstract and rigorous application of learning. Center activities are included in each unit, which allow for differentiation and review of previously learned concepts. The material

IM= Instructional Material SE= Student Edition TE= Teacher Edition SW= Student Workbook

incorporates technology into each lesson and makes it easy to transition to virtual teaching if necessary. The online learning platform offers flexibility in the presentation of concepts in order to meet individual student needs. Overall, ImagineLearning's Illustrative Mathematics provides a balanced material that is designed to meet the varying learning needs in each classroom while supporting teachers and families to challenge students with the rigor outlined in the 5th grade standards.

Reviewer #98 background and experience: I am a Level 3 teacher with 21 years of teaching experience, 11 years as a fifth grade teacher and 10 years as a sixth grade math teacher.

Professional summary of material:

ImagineLearning's Illustrative Mathematics material is strategically organized to allow students to develop conceptual understanding of all the fifth grade standards through engaging activities that include a variety of learning tasks and the use of both hands-on and virtual manipulatives and diagrams. Students have opportunities to develop strategies independently and in small groups, to practice, to strengthen skills and fluency, and to apply the concepts to both real-world and mathematical problems. The structure of each lesson supports learners of all ability levels with a warm-up, learning activities, synthesis, and cool-down that are student-centered and engage students in meaningful ways that relate math to the real world. Formative and summative assessments are provided to monitor students' proficiency on all grade-level standards and guide instruction. Teacher and family support are available for all units. Overall, Illustrative Mathematics is a comprehensive material designed to promote critical thinking and problem-solving skills and a deep understanding of grade-level math concepts.

Reviewer #99 background and experience: I am a level 3 teacher with 23 + years of experience- 17 years teaching 7th/8th math, 5 years as a Math Instructional Coach 6th-8th, and 1 year teaching High School Algebra 1 and Algebra 2. I have a K-12 license and Master's in Curriculum and Instruction with an emphasis in TESOL.

Professional summary of material:

The Illustrative Math material for 5th grade thoroughly covers the grade level standards and provides a nice balance of the Aspects of Rigor, with the Standards for Mathematical Practice embedded throughout. It provides rich and engaging learning opportunities while simultaneously focusing on the learning goals of the content standards. The quantity of lessons and activities is viable for a school year while still providing opportunities for intervention, extension, scaffolding, and differentiation. Formative and summative assessments are embedded in each lesson and unit, providing sufficient information to help drive instruction and plan lessons to meet the needs of all learners.

There is a nice progression of content and lessons that bring in prior learning and prepare students for future content. The lesson formats are engaging, providing many opportunities for students to engage in mathematical discourse and explore concepts. The instructional supports and learning routines support all learners and provide support for teachers in planning and implementing effective learning experiences. An online platform and virtual manipulatives are available to provide flexibility for instruction and learning.

The material provides many opportunities to meet the needs of all learners and their families. The lessons provide concrete, hands-on explorations, skill practice, and move to applications of the learning in real-world based problems and projects. The depiction of characters, real-world scenarios, instructional routines, and videos address a variety of cultural and linguistic backgrounds and allow students to bring in their own linguistic and cultural experiences. English Learners and students with disabilities are supported in numerous ways through use of various instructional strategies and access to multimodal teaching and use of manipulatives. Materials are also included to support families in understanding the content being learned.

Overall, the material addresses all grade level content in a cohesive and natural manner, provides many rich and engaging opportunities for all learners, and provides necessary support for teachers, students, and families.