

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 need 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 4 (Digital Only) 1 year	Publisher	Imagine Learning LLC
SE ISBN	9798885224154	TE ISBN	9798885224161
SW ISBN	9798885224178	Grade Level/Content	Grade 4 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  Recommended with Reservations \_\_\_\_\_ Not Recommended \_\_\_\_\_

**Total Score**

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

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

Reviewer #1 95% Reviewer #2 99% Reviewer #3 97% Average 97%

Materials align with grade level standards.
<i>Statements of appraisal and supporting evidence:</i> The material addresses all 4th grade math standards efficiently and most are covered in depth. Supporting content helps to enhance lessons and students are given extensive work with grade level content. Lessons include a description of vertical alignment to address the skills being developed and the skills students are working toward.
Materials align to standards for mathematical practice.
<i>Statements of appraisal and supporting evidence:</i> All math practices are evident throughout each unit in the material. They are highlighted at the top of each lesson as well as throughout the lesson.
Materials show aspects of rigor.
<i>Statements of appraisal and supporting evidence:</i>

Rigor and balance are evident throughout each unit. Fluency practice can be found in the lesson warm ups as well as center activities. Conceptual development and application are seen through the progression of lessons in each 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 93%    Average 93%

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 opportunities for teacher support through videos 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 4th grade math content. Although each lesson includes support for teacher instruction, there is minimal insight into possible student misconceptions to watch for. Mathematical discourse opportunities are embedded into every lesson.

**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 90%    Reviewer #2 88%    Reviewer #3 88%    Average 89%

Materials are consistent with the progressions in the standards.

*Statements of appraisal and supporting evidence:*

Each unit provides a list of standards that are addressed in the lessons. Lessons and units contain a summary of skills that are covered as well as correlate the current learning to skills learned previously and to future learning.

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 the overall unit. Units begin with concrete, hands-on exploration of concepts and move to abstract application of learning.

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

*Statements of appraisal and supporting evidence:*

All lessons have a similar structural design. Lessons start with a warm-up, activities, synthesis and cool-down. 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 in an online format. Each assessment assesses 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 student 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 also includes an adaptation pack that offers lessons and activities for intervention. Units contain optional center activities that help to support the key concepts.

Materials support effective use of technology to enhance student learning. Digital materials are accessible and available in 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. 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:*

All lessons have the option to assign the text to speech feature 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.

**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 (K-12) and general education (K-8); 14 years of teaching experience at the elementary level; EL certified.

*Professional summary of material:*

The 4th 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 simplify its implementation. Balance and rigor are evident in each lesson and each of the math practice standards are highlighted throughout the learning routines. Each unit is engaging and progresses from a concrete conceptual focus to a more abstract and rigorous application of learning.

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:*

The Illustrative Mathematics material is strategically written and organized to allow students to develop a conceptual understanding of all of the fourth grade standards through engaging activities that include a variety of learning tasks and the use of hands-on manipulatives and diagrams. Students are provided sufficient opportunities to develop strategies, practice, strengthen skills and fluency, and 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. Formative and summative assessments are provided to monitor students' proficiency on each standard and guide

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

instruction. Teacher and family supports 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 as a 7th and 8th grade teacher, 5 years as a 6-8 Instructional Coach, and 1 year teaching Algebra 1 and Algebra 2. I hold a Master's in Curriculum and Instruction with an emphasis in TESOL.

*Professional summary of material:*

The 4th Grade Illustrative Math material provides a nice balance of the aspects of rigor while providing rich and engaging learning opportunities. The lessons and material address and progress through all grade-level standards in a cohesive and natural manner, including concepts and skills from previous grades. The lessons are engaging while simultaneously focused on the learning goals of the content standards. The instructional strategies and inclusion of Standards for Mathematical Practice in every lesson help students explore and make sense of the math and engage in discourse with their peers. English Learners and students with disabilities are supported in numerous ways through various instructional strategies and access to multimodal teaching and use of manipulatives. There are numerous supports for teachers of all levels, family supports, and options for paper or digital materials.