

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 Kindergarten (Digital Only) 1 year	Publisher	Imagine Learning LLC
SE ISBN	9798885223911	TE ISBN	9798885223928
SW ISBN	9798885223935	Grade Level/Content	Grade K 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 90.5% Reviewer #2 95.1% Reviewer #3 86.7% Average 91%

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

Reviewer #1 88.5% Reviewer #2 93.9% Reviewer #3 85% Average 89%

Materials align with grade level standards.
<p><i>Statements of appraisal and supporting evidence:</i></p> <p>The materials meet the kindergarten standards. There is a clear scope and sequence that builds from conceptual understanding to procedural fluency to application. Materials provide opportunities for distributed practice through centers. After review, we found the materials did not include exposure to a hundreds chart. (K.CC.A.1) As this is an essential grade level standard, students would need additional support in this area. Assessments include formative assessment, end of unit assessment, Cool Downs (shorter), and checklists for use during observation of students working on performance tasks related to grade level standards. Individual lessons include content standards and math practice standards. The Teacher Source Book and online components include lessons listed by standard as well as standards addressed by lesson.</p>
Materials align to standards for mathematical practice.
<p><i>Statements of appraisal and supporting evidence:</i></p>

This material aligns to the mathematical practices, which is evidenced by the citing of a variety of practices in each of content specific areas. Although all 8 Math Practices are evident in the material, Math Practice 2, 6, and 7 have the most emphasis within the material.

Materials show aspects of rigor.

Statements of appraisal and supporting evidence:

The materials are rigorous in conceptual understanding as presented in the materials through the centers, which include distributed practice, and the wrap up in Unit 8. Procedural skill and fluency are presented in Center Activities throughout the year. Opportunities for students to apply the math concepts being learned are not frequently evident. In Unit 8, students are given the opportunity to apply what they have learned throughout the year, but it is the only occurrence, leaving balance of rigor unfulfilled. There are checkpoint lists available to monitor application of content standards.

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

Reviewer #1 100% Reviewer #2 100% Reviewer #3 96.4% Average 98.8%

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

Statements of appraisal and supporting evidence:

The materials are consistent with grade level content, supporting the intent of the delivery and understanding of mathematics. Each unit has Launch videos created for teachers to support mathematical concepts in the unit. Videos include Learning Narrative, Learning Progression, and Learning Supports. Videos help build teacher knowledge. Lessons contain learning targets and standards addressed.

Materials support student learning of mathematics.

Statements of appraisal and supporting evidence:

The materials support student learning in mathematics in many ways. In all units, the teachers are provided with a home connection tab, which allows them to send videos and pdf documents to families, all explaining the learning that will be happening in that unit. They are available in English and Spanish. The materials include research based instructional routines and clear guidance on how to develop those routines within a math classroom community. Within the routines, the lessons give students plenty of time to discuss their thinking, such as "What do you notice, what do you wonder? Discuss your thinking with your partner".

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 93.9% Reviewer #2 97.6% Reviewer #3 89% Average 93.5%

Materials are consistent with the progressions in the standards.

Statements of appraisal and supporting evidence:

The materials are consistent with the progressions in the standards. The material includes 8 Units containing between 8-28 lesson plans, with an average of 23 days per unit to include two days embedded for assessments. The lesson plans are designed to fit within a period that is at least 60 minutes long. Also, the TE has suggestions for optional lessons to include per unit.

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

Statements of appraisal and supporting evidence:

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

<p>The materials foster coherence through each lesson by listing the standards that are addressed within the lesson as well as standards that are being introduced. In each section of the lesson, the individual standard is listed. The kindergarten standards are all met throughout the materials and are assessed in the End of Unit Assessments and Checkpoints.</p>
<p>Materials are well designed and take into account effective lesson structure and pacing.</p>
<p><i>Statements of appraisal and supporting evidence:</i> The materials have a layout that is consistent throughout. There are a variety of photographs and images that illustrate ways to engage students and inform instructional decisions. The materials also require students to discuss their thinking throughout each lesson. In the Teacher Course Guide, there are several sections that explain to teachers the “why” behind the material in its entirety. (Key Structures in This Course, How to Use the Materials, Advancing Mathematical Language and Access for Students with Disabilities, Assessment Guidance)</p>
<p>Materials offer teachers resources and tools to collect ongoing data about student progress on the standards.</p>
<p><i>Statements of appraisal and supporting evidence:</i> The materials offer multiple resources for teachers to collect ongoing data. These are offered online and can be printed as a PDF document. These are the Checkpoints and the End of Unit Assessments.</p>
<p>Materials give all students extensive opportunities and support to explore key concepts.</p>
<p><i>Statements of appraisal and supporting evidence:</i> The materials give students many opportunities and support to explore concepts through embedded centers within each lesson. Distributed practice is incorporated into the material through the centers.</p>
<p>Materials support effective use of technology to enhance student learning. Digital materials are accessible and available on multiple platforms.</p>
<p><i>Statements of appraisal and supporting evidence:</i> The materials include online presentations that provide virtual manipulatives. Students can be assigned lessons and assessments through the online platform. There are also teacher and student videos that explain the lessons.</p>
<p>Materials can be easily customized for individual learners.</p>
<p><i>Statements of appraisal and supporting evidence:</i> The materials can be customized for students who are English Learners and for students with disabilities. Some lessons provide strategies for each of these groups. Although the materials do provide some strategies to enhance learning, they are difficult to find.</p>
<p>Materials take into account cultural perspectives.</p>
<p><i>Statements of appraisal and supporting evidence:</i> The cultural perspectives for the material are at a surface level. The student workbook edition depicts pictures and drawings that reflect real world common items.</p>

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.*

<p>Reviewer #94 background and experience: Level III teacher, 24 years in education: 20 years teaching and 4 years as an instructional coach; NBCT Middle Childhood Generalist; Math Specialist Endorsement; Reading Endorsement; Admin Endorsement</p>
<p><i>Professional summary of material:</i> Illustrative Mathematics addresses NM CCSS for kindergarten to include Math Practices and content standards. Scope and sequence and pacing are thoughtfully designed using research-based best practices and instructional routines; this includes the ‘why’ behind the design. There are a variety of supports for teachers as they build their own mathematical background to support student learning. Cultural aspects are surface level. However, there are opportunities for teachers to have students bring in aspects from their own cultures. The digital platform is easy to use and offers ways to customize lessons for learning.</p>
<p>Reviewer #95 background and experience: Level III Teacher, NBCT Early Childhood Generalist, 10 years in education: 7 Years in 1st Grade, 3 Years in 2nd Grade.</p>

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Professional summary of material:

Overall the Illustrative Mathematics material has valuable information to help teachers understand where their students are through the checkpoints and end of unit assessments. The online portion is easy to follow, giving teachers daily lesson presentations that give teacher prompts and questioning for students. The routines and procedures are research based and give teachers the reasons why they are presented the way they are in each lesson.

Reviewer #96 background and experience: Level III Dual language teacher; NBCT in teaching English as a new language, with an endorsement in TESOL; Math Specialist and bilingual education; 14 years of teaching experience; MA in Curriculum and Instruction.

Professional summary of material:

The material covers the CCSS for kindergarten well with most work emphasizing major cluster standards; it has a reasonable amount of material to cover within a school year. This material provides strategies and supports for English Learners and provides a Universal Design for Learning. The aspects of rigor are present but attention to applications is a developing aspect. The material embeds time within lessons for students to engage in center work tied to goals and standards being worked on. The cultural aspect and application of the material is surface level.