

## **RFP No. 2021-18**

### **K-5 Mathematics Core Resource Adoption**

#### **Rationale for Purchase:**

High quality math instructional materials that are aligned to the Maryland College and Career Ready Standards have been provided within the K-5 Math WCPS Essential Curriculum in lieu of a single core mathematics resource. This a la carte approach, while providing teachers with many excellent instructional resources, includes as many as ten different resources for a classroom teacher to reference and make sense of in order to most effectively and coherently plan a single unit of study. Acquiring a core mathematics resource will consolidate content and pedagogy into a single location for planning. This is imperative for elementary teachers, many of whom plan daily for four different content areas, allowing approximately 15 minutes per content during a typical work day. Elementary teachers are content generalists. The goal for every teacher is to know, use, and enjoy mathematics alongside their students. Therefore, a core resource must provide teachers with not only the “what”, but also with research-based best practices for “how” to teach mathematics and the instructional adjustments to meet the needs of all learners.

With a goal to ensure that learners are College- and Career-Ready and that every secondary mathematics pathway is available to all students when leaving fifth grade, a core mathematics resource across the county provides access and equity to essential mathematics experiences for all students. Improving the viability of the WCPS Essential Curriculum is necessary in order to deepen the understanding of mathematics and its relevance and application in the real world, and in turn increasing student mathematics proficiency.

Given the need to improve the teaching and learning of elementary mathematics for the sake of all learners through high quality materials and experiences, the teacher selection committee highly recommends the purchase of LearnZillion’s Illustrative Mathematics curriculum.

#### **Recommended Purchase:**

*K-5 Illustrative Mathematics* by Learn Zillion

LearnZillion Illustrative Mathematics K-5 is a problem-based, rigorous curriculum that makes elementary school mathematics accessible, impactful, and memorable for all students. Authored by the Illustrative Mathematics team and delivered in LearnZillion’s classroom-ready platform, this curriculum has what you need to reach all students:

- digital lesson plans that can be projected or assigned,
- a tightly coherent scope and sequence that builds within and across grades,
- strategic design of lessons from warm-up to cool-down,
- intriguing and authentic problems at the heart of every lesson,
- guidance for facilitating mathematical discourse and engaging with mathematical practices,
- a center structure that supports independent practice, exploration, and the development of grade-level fluencies,
- supports for English Language Learners and students with disabilities, and
- formative and summative assessment.

LearnZillion Illustrative Mathematics (IM) curricula are grounded in the idea that student-led

problem-solving and discourse builds a deep understanding of mathematics. Driven by this idea, LearnZillion IM curricula are rich, engaging core programs built around focus, coherence, and rigor.

LearnZillion IM curricula are the only math programs that:

- carry the distinguished IM Certified seal.
- remove friction from teacher prep with classroom-ready lesson plans.
- blend digital and print materials to best leverage each format.
- provide digital tools for adapting the curriculum to local context.
- offer robust, responsive, data-informed support to drive impactful implementations.

**Cost:** See additional handout

**Selection Process:**

December 14, 2020	RFP Issued
January 26, 2021	Deadline for RFP proposal submission
January 29, 2021	Supervisor and Content Specialists narrowed selection
February 8, 2021	Finalist presented resource to selection committee
February 10, 2021	Finalist presented resource to selection committee
February 11-April 1, 2021	Selection committee reviewed resources
April 6, 2021	Selection committee selected recommended resource
April 19, 2021	Presentation to C&I Committee
May 4, 2021	Request Board approval for purchase

**Selection Committee Members:**

Boonsboro Elementary:	Melanie Seibert
Emma K. Doub Elementary:	Carly Shockey
Fountaindale Elementary:	Stephanie Boschen
Fountain Rock Elementary:	Morgan Thomas
Greenbrier Elementary:	Kristine Shumaker
Jonathan Hager Elementary:	Breese Gearhart
Lincolnshire Elementary:	Ashley Mason, Lauren Myers,Michelle Vascik, Courtney Ward
Maugansville Elementary:	Whitley Myers, Julie Schultz
Pangborn Elementary:	Hilary Barber, Beth Brandenburg, Mabry Kane, Giovanna Papa, Barbara Wollard
Paramount Elementary:	Victoria Leap, Leah Pongratz
Pleasant Valley Elementary:	Sarah Camden
Rockland Woods Elementary:	Nichole Tarkanick
Ruth Ann Monroe Primary:	Lauren Housel, Lisa Keyser, Lisa Teeter
Salem Avenue Elementary:	Raymond Weber
Smithsburg Elementary:	Cynthia Hausler, Tara Wynkoop
Williamsport Elementary:	Kimberlie Grabenstein

**Selection Criteria:**

Resources were evaluated in the following areas using the Maryland Rubric for Reviewing Curriculum Support Materials:

- Alignment to MCCR Mathematics Standards - Instructional materials for mathematics are aligned to content and practice standards in the Maryland College and Career Ready Mathematics Curriculum Framework.
- Evidence-Based Practices in Mathematics - Instructional materials are aligned to research- and evidence-based practices for mathematics.
- Culturally Responsive and Equitable Teaching Practices - Materials should be culturally responsive and include a variety of student experiences and representations to avoid bias and promote equity.
- UDL/Differentiation for Diverse Learners - Materials provide strategies and resources to help teachers ensure that content is accessible to and appropriately challenging for a full range of learners.
- Differentiation for English Learners - Materials provide support for English learners (ELs) of varying levels of English proficiency to allow them to access the academic language and content of the lessons. Materials enhance ELs' engagement and active participation in learning. Prerequisite lessons include specific EL support as needed.
- Formative Assessment Practices - This rating factor addresses the degree to which the curricular support materials offer teachers resources, tools, and guidance on key formative assessment practices such as how to collect ongoing evidence about student progress toward learning goals, how to interpret that evidence, how to provide feedback to students, how to adjust ongoing teaching to improve students' achievement, and how to encourage students to monitor their own progress.
- Summative Assessment Components - Curricular support materials include valid, reliable, and meaningful summative assessments and performance tasks that are fair, unbiased, and accessible to all students.
- Implementation Support - Curricular support materials for teachers are easy to use and help teachers plan for teaching and learning, as well as accommodate to special needs. There is also sufficient guidance on how to adapt materials when needed to fit students' needs and available time. In addition, curriculum resources should include accommodations and/or additional resources to support regular and active participation in learning for all students, including those with sensory or physical disabilities.

**Teacher Comments about Illustrative Mathematics by LearnZillion:**

- Grade K Teacher: There are activities for struggling learners as well as ways to advance learners.
- Grade K Teacher: "About this lesson" section within the lesson slides offers connections to previous lessons and tells the standard it builds toward.
- Grade K Teacher: There are teacher reflection questions to make teachers stop and evaluate themselves and their teaching.
- Grade K Teacher: Overall, I found this resource to be all inclusive and very easy to navigate. It was easy to see the progression of the lessons and how they built upon each other.
- Grade 1 Teacher: Student workbook isn't just worksheets to complete. It's organizers and games to use alongside teacher lessons.
- Grade 1 Teacher: Problems are not the routine, consistent, same practices which fosters students to use their thinking skills to develop understanding and make meaning

- Grade 1 Teacher: Very manipulative-based, which is huge for building understanding in grade 1! There are opportunities to give feedback on the website.
- Grade 1 Teacher: Engages students prior knowledge before lessons/tasks.
- Grade 2 Teacher: There are links to strategies to implement when teaching students who may not be familiar with relevant background knowledge.
- Grade 2 Teacher: “Support for Distance Learning and Unfinished Learning”. A teacher and student manual to support learning gaps
- Grade 2 Teacher: There is strong evidence, and routine opportunities, for students to engage with the Standards for Mathematical Practice at the appropriate level of complexity for the grade. Lessons make meaningful connections between the content standards and the SMPs
- Grade 2 Teacher: Assessments allow for autoscoring and allows teacher to see student work.
- Grade 3 Teacher: Accessibility - Provides vocabulary, pictures/ visual aids, reads to students
- Grade 3 Teacher: Includes family pages with examples.
- Grade 3 Teacher: There are summative assessments for each unit section test that can be both printed and digital.
- Grade 3 Teacher: provides auditory, kinesthetic, and visual representations in the lessons
- Grade 4 Teacher: Very friendly for teachers, especially new teachers that need help with understanding standards. Easy for new teachers to follow and learn proper math strategies.
- Grade 4 Teacher: Many hands-on activities. Also, students were encouraged to reflect on their work.
- Grade 4 Teacher: Illustrative Mathematics includes almost all of the components from the MD rubric. I feel that teachers can follow the units and assess and adjust their teaching based on the tools that are provided. I do like the extra components of LearnZillion that we do not currently have and feel that it will run more cohesively with all of these components.
- Grade 5 Teacher: The units that I went through were well organized and provided a steady path of learning progressions for the standards in the module. The routines, both thinking and instructional, provide a lot of opportunities for structure which will support many of our diverse learners.
- Grade 5 Teacher: There are multiple means of media, such as videos, digital manipulatives, interactive cards. Teacher Adaptation Packs contain resources for students who have unfinished learning from the previous grade.
- Grade 5 Teacher: Purposeful questions are embedded in the teacher notes, as well as routines cards. Student work is brought to the forefront in Cool Downs with teacher notes to utilize their work as evidence for student thinking.
- Grade 5 Teacher: Thoughtfully paced units that align with our standards, including ample teacher support for working with students.
- Lead Teacher: This is easy for teachers to use as it incorporates some tools we have already had - braining camp, learnzillion. It is also organized in a fashion that makes it easy for new/young teachers to follow and use (one of my new teachers used it for 5 lessons and said it made planning easier and she was able to focus on the “how” of the teaching as opposed to the “what”.
- Lead Teacher: Overall philosophy of upside down I do, we do and you do triangle which is the philosophy we have adopted for math in Washington County. This program fits with what we have been working toward for years now.

- Lead Teacher: The Centers are practical, easy to create, and use materials we already have in our classrooms. Centers will be great and will help teachers implement small group rotations.
- EL Teacher: Used multiple lessons (Fractions & Decimals) with my Class, including 3 non-speaking EL's and it went very well. My EL's seemed to be able to follow the lesson sequence and build on their conceptual understanding while gaining confidence and fluency.
- GATE Teacher: I LOVED the built in routines and prompts to discuss leading to discourse and a chance to share multiple ways to solve problems.

**Sample / Demo Login:**

Website: <https://review-wcpsmd.learnzillion.com>

Username: [wcpsmd@example.com](mailto:wcpsmd@example.com)

Password: teacher