Amplify Desmos Math

A curiosity driven program that builds lifelong math proficiency.

Board Approval for PreK/TK - 5 Math Curriculum

May 13, 2025

Connection to Goals

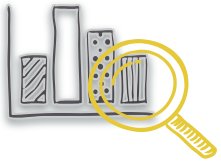
Strategic Plan

Pillar 1 - Academic Excellence

Pillar 3 - Staff

Pillar 4 - Community & Families

LCAP

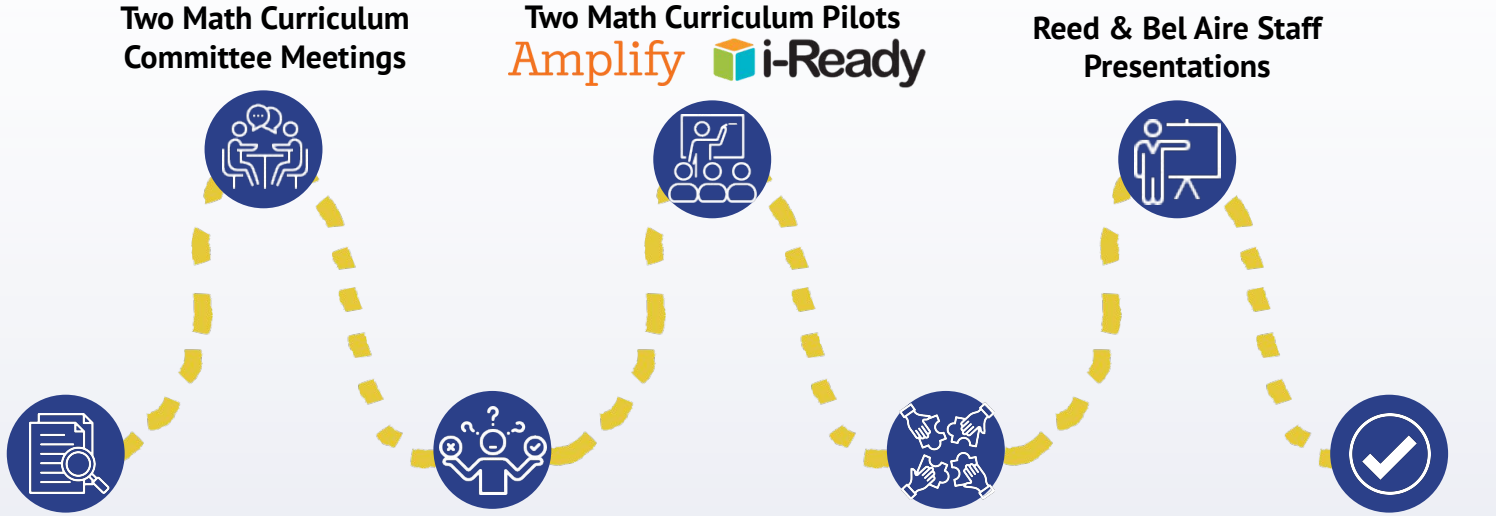


Goal #1: Each student will demonstrate proficiency and individual annual growth in core academic content areas.

Math Pilot & Curriculum Adoption Roadmap

Steps taken during the 2023-2025 school years

Reed Union School District
Nurture • Teach • Inspire



Math Curriculum Criteria

Six Areas of Focus Throughout the Pilot Process

Rigor

Challenges students to develop deep conceptual understanding, procedural fluency, and real-world problem-solving skills.

Differentiation

Lessons and materials are designed to meet the diverse needs of all learners, including support and enrichment opportunities.

Assessment

A range of tools to monitor student learning and guide instruction through both formative and summative assessments.

Technology

Uses digital tools and platforms to support instruction, practice, and data tracking.

Engagement

Activities and content are designed to be interesting, interactive, and relevant to students' lives, encouraging active participation.

Spiral Review

Key math concepts are revisited throughout the year to reinforce learning and build long-term retention.

Recommendation

After careful evaluation of multiple curriculums and two pilots, **Amplify Desmos** emerged as the most comprehensive and effective PreK/TK-5 Math curriculum for our district.

RIGOR

- Rigorous and standards-aligned content that promotes mathematical thinking
- Support for teachers to orchestrate math discourse during instruction
- Teaches kids to problem solve

DIFFERENTIATION

- Effective differentiation strategies and built in accommodations to meet diverse learner needs
- Accelerate growth with mCLASS mini lessons and BOOST Personalized Learning

ASSESSMENT

- Varied and effective assessment strategies
- “Show What You Know” Exit tickets with built in student self reflection
- Progress monitoring through mCLASS

SPIRAL REVIEW

- Intentional spiral review to build mastery
- Review of previously learned concepts and skills embedded into every lesson and student practice

ENGAGEMENT

- Unit Math Stores help students see math in the world around them
- Strong student engagement through dynamic and interactive activities
- Centers are hands-on games that allow students to play collaboratively

TECHNOLOGY

- Integrated suite of math resources - assessment, core curriculum, intervention, and acceleration
- Online resources are easy to navigate and use for both staff and students

RIGOR: A Structured Approach to Problem-Based Learning

Foundation for lesson design

1

Activate students' prior knowledge and curiosity

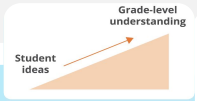
Warm-up

2

Generate new ideas through collaboration

3

Refine ideas using facilitation tools



Activities

Launch → Monitor → Connect

4

Guide to grade-level understanding

Synthesis

5

Practice, reinforce, remediate, and **extend** for lasting understanding

Reinforcement

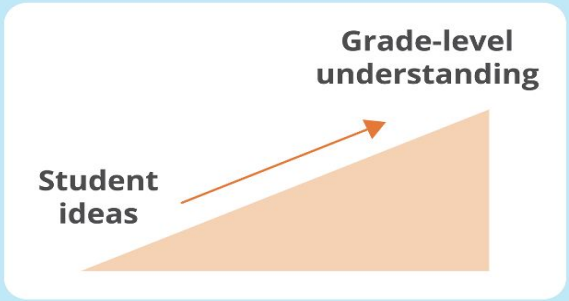
Amplify.

Lesson Structure

Structured approach to problem-based learning

Warm-up

5 min



Activities
Launch → Monitor → Connect

30-40 min

Synthesis

5 min

Reinforcement

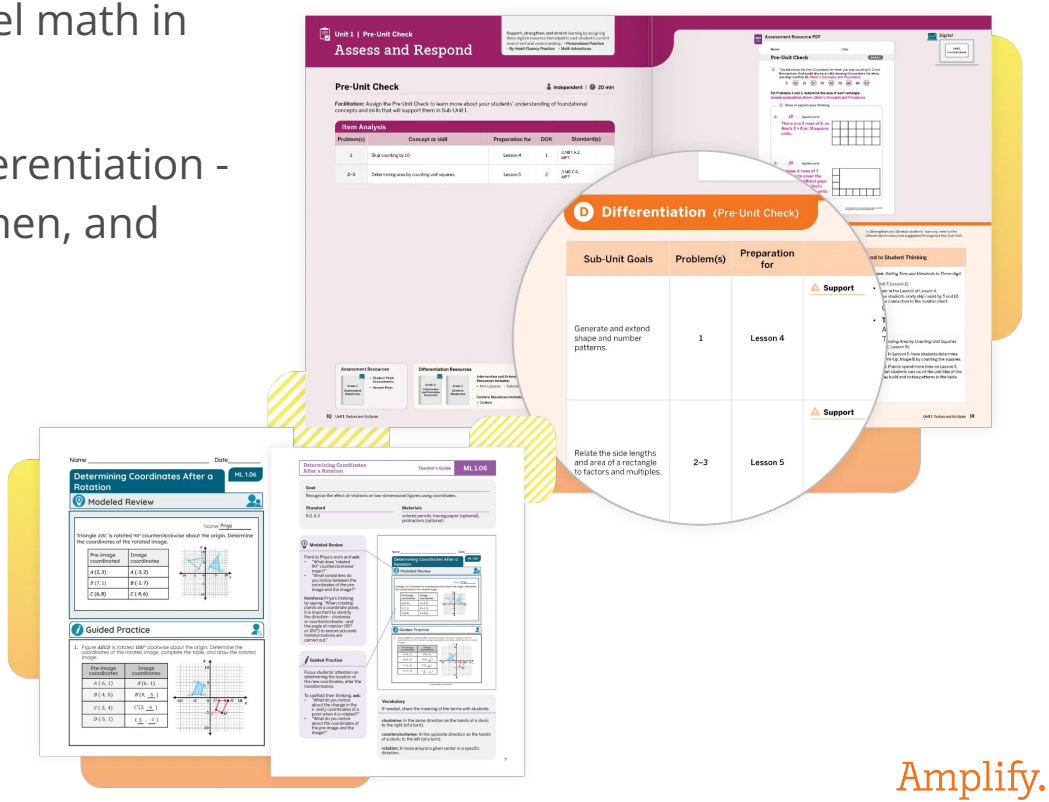
Varies

60 minutes

DIFFERENTIATION: Access to Grade-Level Math For Every Student

All students engage with grade-level math in every lesson through:

- In lesson and post-lesson differentiation - resources to support, strengthen, and stretch understanding
- Mini lessons
- Boost Personalized Learning
- Centers
- Math Adventures
- Fluency practice



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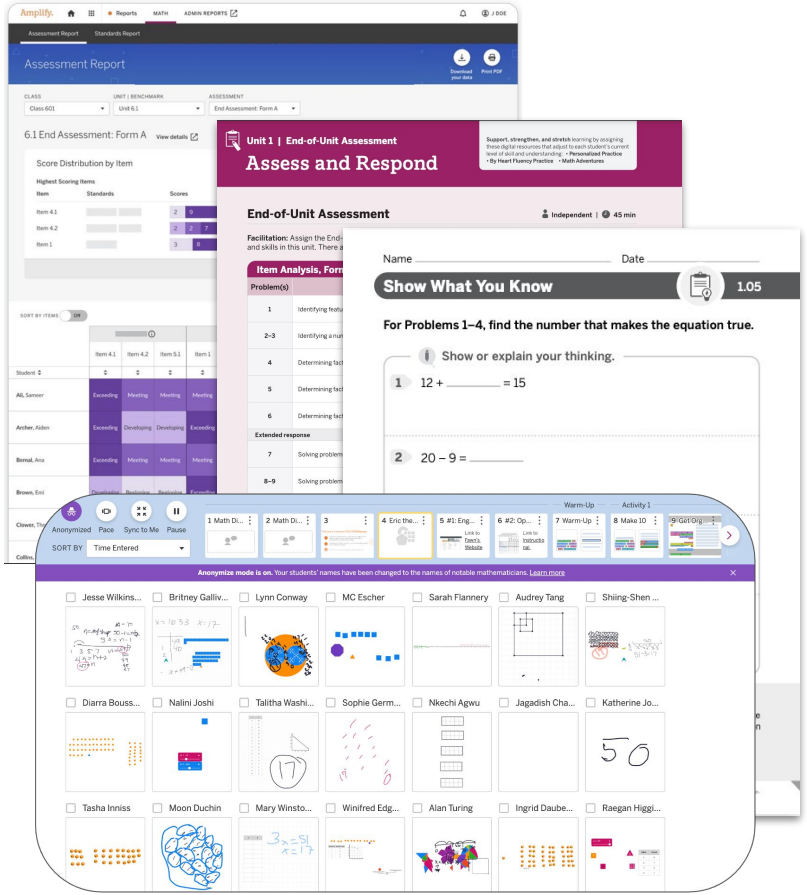
ASSESSMENT: Student Thinking is Valuable and Made Evident

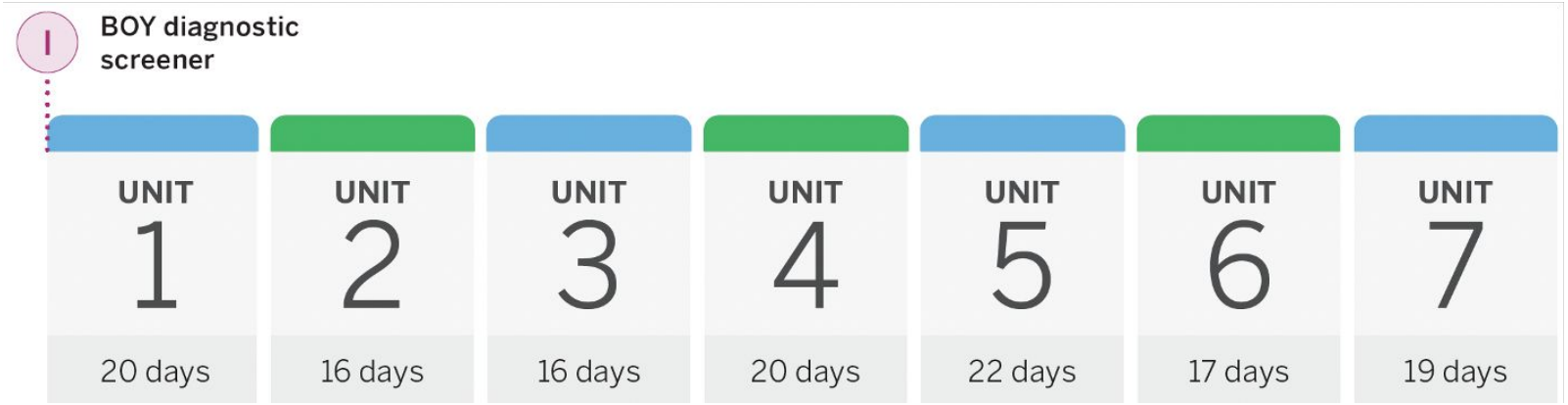
With explicit guidance on what to look for and how to respond, teachers can effectively support students as they develop their understanding:

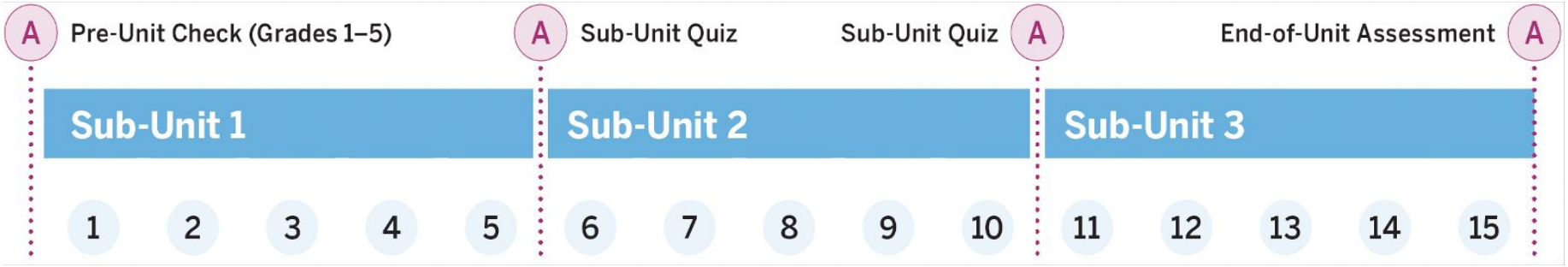
- Reporting tools monitor progress and provide integrated insight into learning.
- Robust formative and summative assessments drive learning and inform instruction.
- Benchmark and progress monitoring assessments identify what students know and can do.



Course and Unit Structure

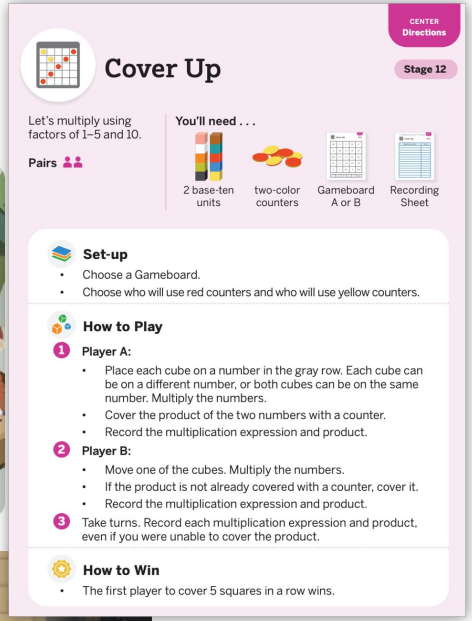
Embedded assessment





ENGAGEMENT: Math That Motivates

- Amplify Desmos Math taps into students' natural curiosity with interesting problems they're eager to solve, leading to lifelong math confidence!
- Student will connect with the math through unit Stories, dive into the learning with engaging hands on lessons and dig deeper with the intentional use of transformative technology.



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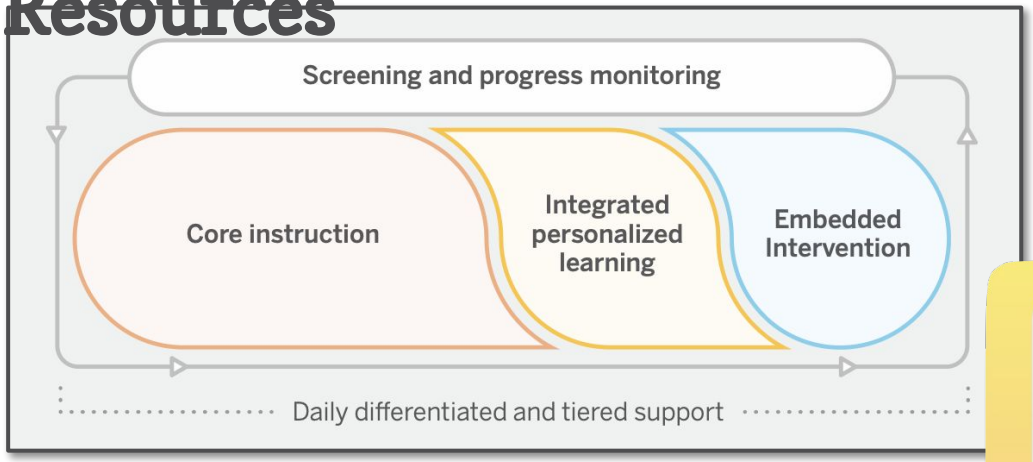
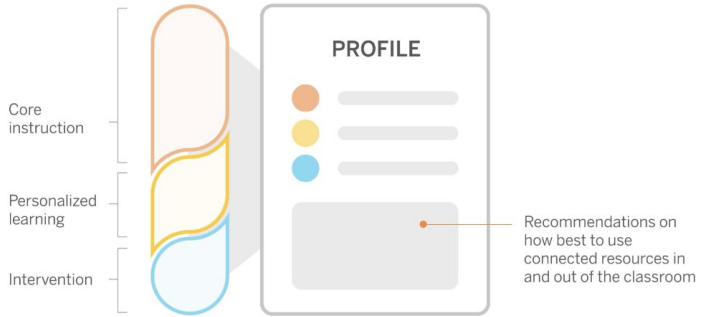
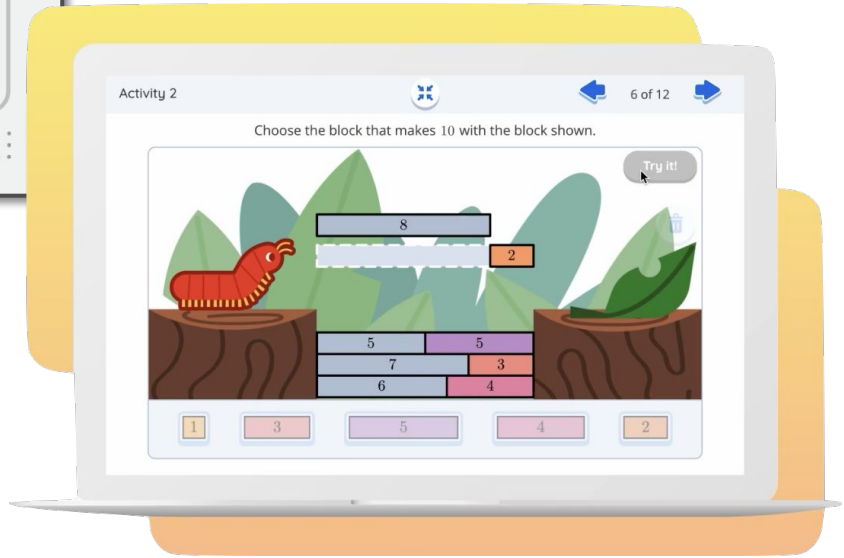
TECHNOLOGY: A Powerful Suite of Math Resources







Planning

Budget

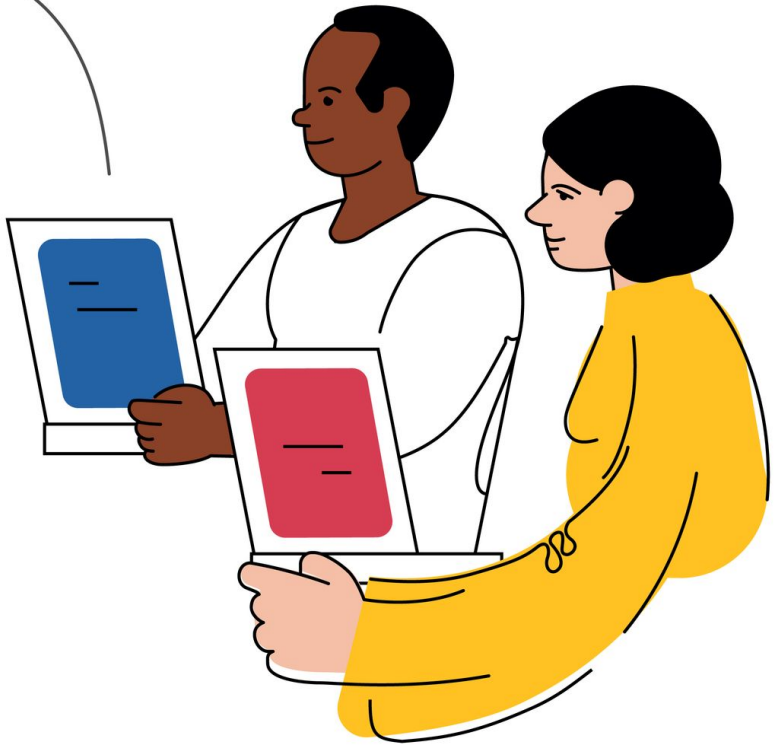
- Funded out of the Instructional Block Grant - budgeted for curriculum adoptions as part of 1st and 2nd interim budget
- About **$127,833** for 3 year contract, which includes:
  - Grade Level Teacher Editions + Students Workbooks (3 years)
  - mCLASS & Boost Student Accounts (3 years)
  - Grade Level Centers Kits
  - 15 Hours of Staff Training

Staff Training & Support

- Explore and play during Spring 2025
- Launch - Strengthen - Coach
- Leverage Instructional TOSA for coaching, grade level check-ins, and implementation support

PreK Plan

- PreK Team is involved in Amplify Desmos Field Trial - engage in training, test out curriculum, share feedback after implementation to inform product development
- Access to Amplify Desmos Kindergarten materials
- Planning time to develop a clear scope and sequence aligned to Preschool/TK Learning Foundations using available resources
- Supplemental resources will be provided to support during the transition year



Questions

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Board Approval