

Middle School Accelerated Math

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A.C.C.E.S.S. Act

<https://access.ade.arkansas.gov/>

Acceleration

- Ensure high school students have the necessary skills for higher education and careers.
- Broaden accelerated coursework in Arkansas high schools beyond AP to IB and other programs.
- Standardize weights for concurrent credit, AP, IB, & Cambridge courses to encourage student participation.
- Establish a process for issuing district grades as well as grades for individual schools.
- Shorten waiver timelines from 5-years to 1-year for K-12 schools that are out of compliance in teacher licensing, class size, and other areas.

Research

- Providing Opportunities for Students with Exceptional Mathematical Promise (NCTM, 2016)

NCTM Position

Students with exceptional mathematical promise must be engaged in enriching learning opportunities during and outside the school day to allow them to pursue their interests, develop their talent, and maintain their passion for mathematics. Such opportunities must be open to a wide range of students who express a higher degree of interest in mathematics, not just to those who are identified through traditional assessment instruments.

Research

Mathematics Learning: A Journey, Not a Sprint (Matt Larson, NCTM, 2017)

- Acceleration may be appropriate if a student has demonstrated deep understanding of grade-level mathematics standards beyond his/her current level.
- When considering opportunities for acceleration in mathematics, care must be taken to ensure that opportunities are available to each and every prepared student and that no critical concepts are rushed or skipped.

Research

Catalyzing Change in High School Mathematics (NCTM, 2018)

- Mathematics learning is not a race, and evidence suggests that students who speed through content without developing deep understanding are the very ones who tend to drop out of mathematics when they have the chance.

Key RPS Definitions

[Click here](#)

- Acceleration
- Advanced Placement (AP) & Pre-AP
- Advanced/Honors
- Gifted & Talented
- National (Junior & Senior) Honor Society
- Rogers Honors Academy (RHA)
- Cambridge International Education
- A.I.C.E. Diploma
- Honors Accelerated Middle School Math

Middle School Math Acceleration



Our current math acceleration pathway:

Grade Level	Course Name
6th	Accelerated Math 6
7th	Accelerated Math 7
8th	Advanced Algebra 1

This pathway will continue.

Middle School Math Acceleration

Beginning in the 2026-27 school year, we will also have:

Grade Level	Course Name
6th	Honors Accelerated MS Math
7th*	Honors Accelerated Algebra 1
8th**	Honors Accelerated Geometry

Selection Criteria

Quantitative Data

- ATLAS Data
- Benchmark Data

Qualitative Data

- Teacher Survey
- Student Survey

Grade Level	Course Name
6th	Accelerated Math 6

GloSS Assessment

GloSS = Global Strategy Stage Assessment

- Uses a framework, called the Number Framework
- Interview type assessment in these domains:
 - Addition/Subtraction
 - Multiplication/Division
 - Ratios/Proportions



End of Year Strategy Stage Expectations



End of Grade
Level

At Risk

Cause for
Concern

At
Expectation

Above
Expectation

Kindergarten

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

1st Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

2nd Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive
*addition/
subtraction

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

3rd Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive
*multiplication/
division

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

4th Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive
*addition/
subtraction

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

5th Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive
*multiplication/
division

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

6th Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

7th Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

Stage 8
Advanced
Proportional

8th Grade

Stage 0
Emergent

Stage 1
One-to-One
Counting

Stage 2
Counting from
One using

Stage 3
Counting from
One by
Imaging

Stage 4
Advanced
Counting

Stage 5
Early Additive

Stage 6
Advanced
Additive

Stage 7
Advanced
Multiplicative

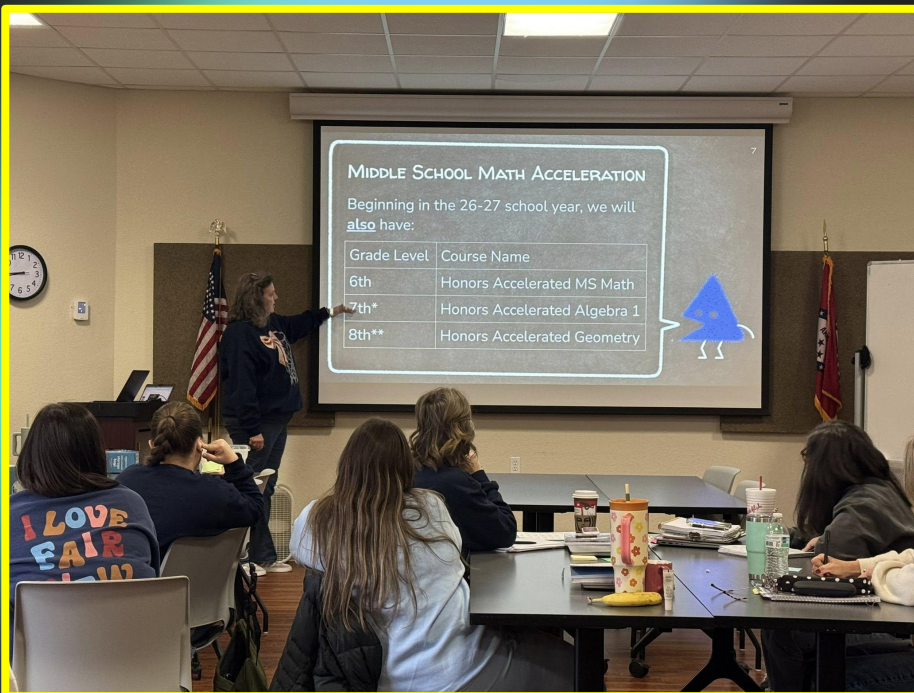
Stage 8
Advanced
Proportional

****By the end of 7th grade, students should have successfully completed through stage 8 of the GloSS. ****

GloSS
grade level
expectations

Acceleration and Gifted/Advanced Learning

GLoSS PD With ALCs



INTERVIEW 1 TASK 4



There are 5 cups in each row.
There are 6 rows of cups.
How many cups are there altogether?

What standards do we teach in this new 6th-grade class?

Grade Level	Course Name
6th	Honors Accelerated MS Math
7th*	Honors Accelerated Algebra 1
8th**	Honors Accelerated Geometry

Overarching Goals

- Compress 5 years of math into 3 school years
 - Grade 6, Grade 7, Grade 8
 - Algebra 1, Geometry
- Students being proficient and meeting growth in Grade 6 (ATLAS Grade 6 Summative)
- Focus our work on Algebra Readiness (AKA, major work of the grade)

Major Work of Each Grade

6th-Grade

- Proportional Reasoning
- Number Systems
- Expressions & Equations

7th-Grade

- Proportional Reasoning
- Number Systems
- Expressions & Equations

8th-Grade

- Expressions & Equations
- Functions
- Geometry

Curriculum Decisions

Honors Accel MS Math

Spring/Summer 2026

From 6th Grade:

- Geometry
- Operations with Fractions and Decimals
- Data Analysis

Fall 2026

- Proportional Reasoning (6 & 7)
- Expressions & Equations (6)
- Rational Numbers (6 & 7)

Spring 2026

- Expressions & Equations (7)
- Rigid Transformations (8)
- Linear Relationships (8)



Teach to One *Roadmaps*

General Information

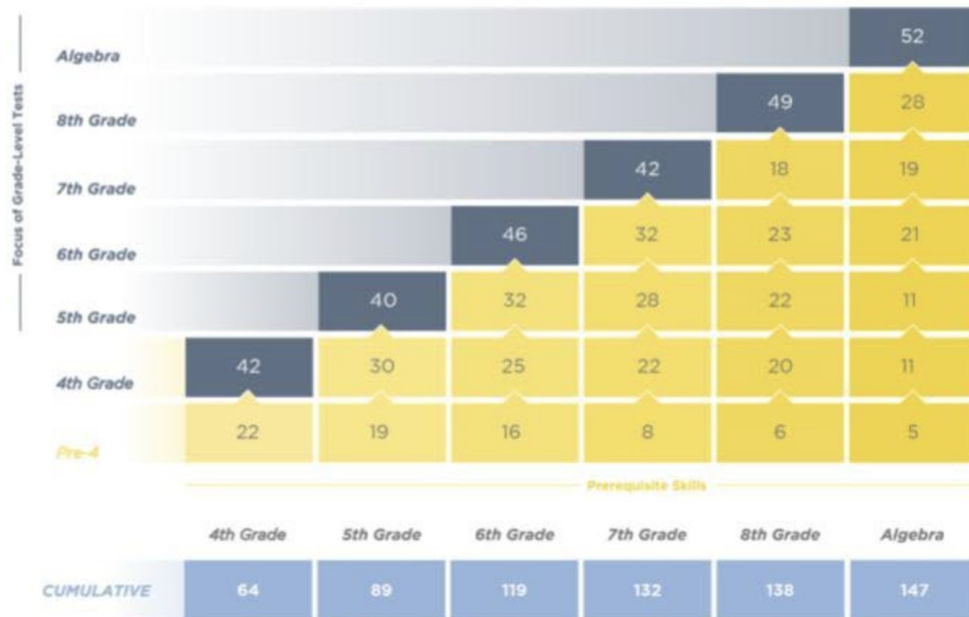
- Supplemental online program used to identify and close learning gaps
- Purchased for ALL 6th-Algebra 1 students



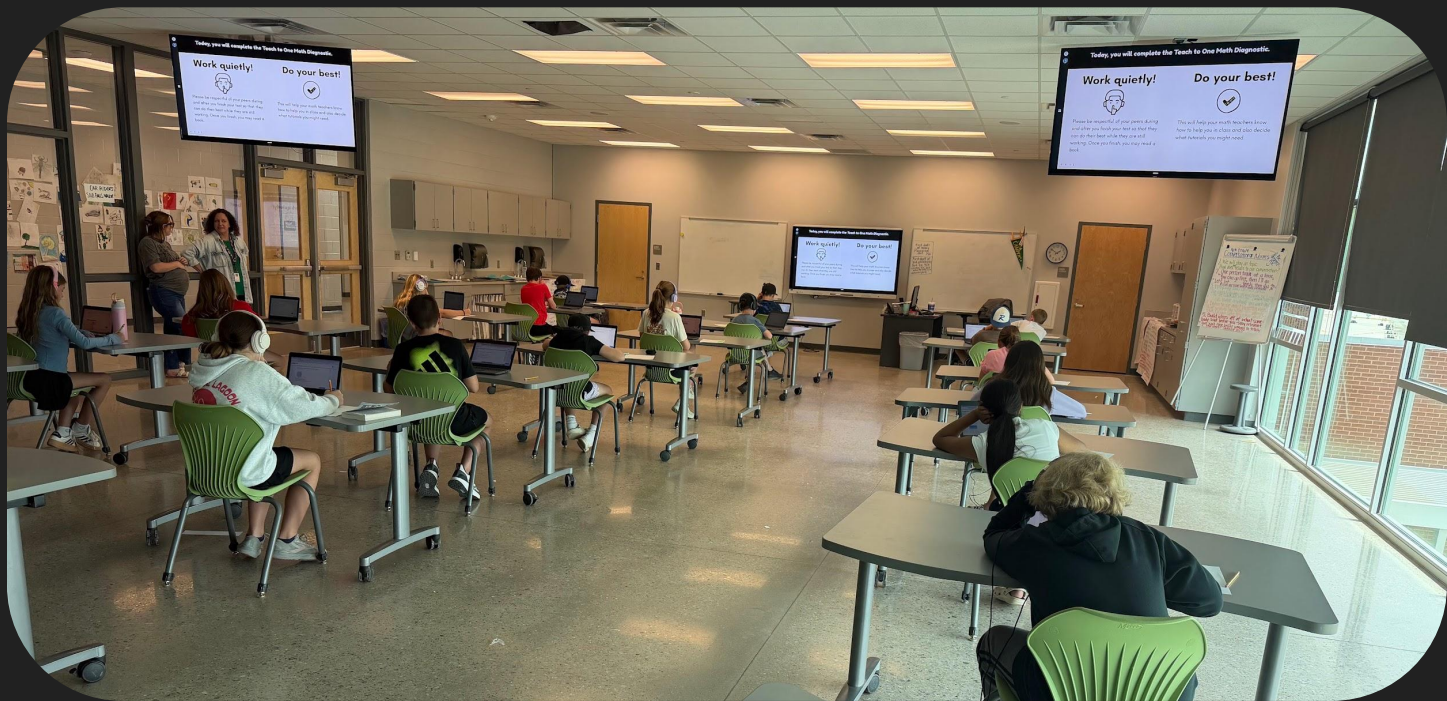
- Begins with an individualized, adaptable diagnostic assessment specific to each grade level
 - Begins at grade level and moves into prerequisites
 - 34 adaptive questions - about 45 minutes



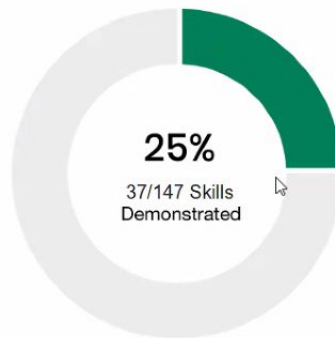
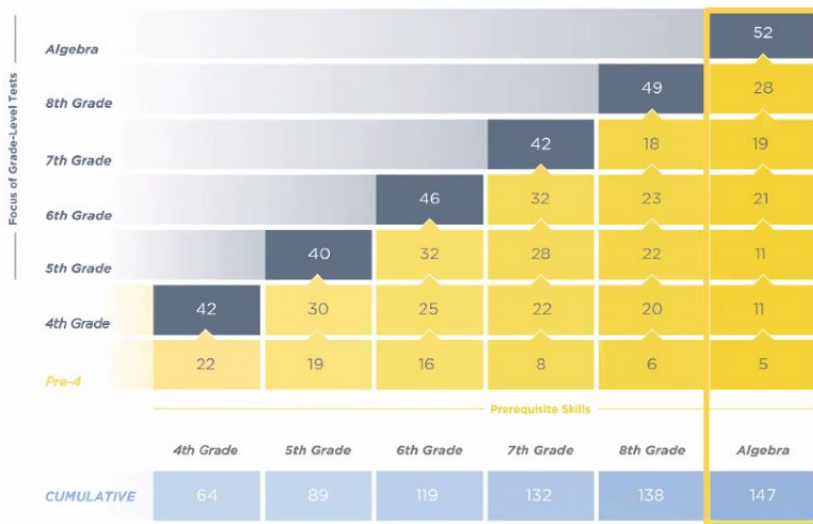
**The
cumulative
nature of
math**



Teach to One Diagnostic



A diagnostic generates a personalized pathway to proficiency for each student



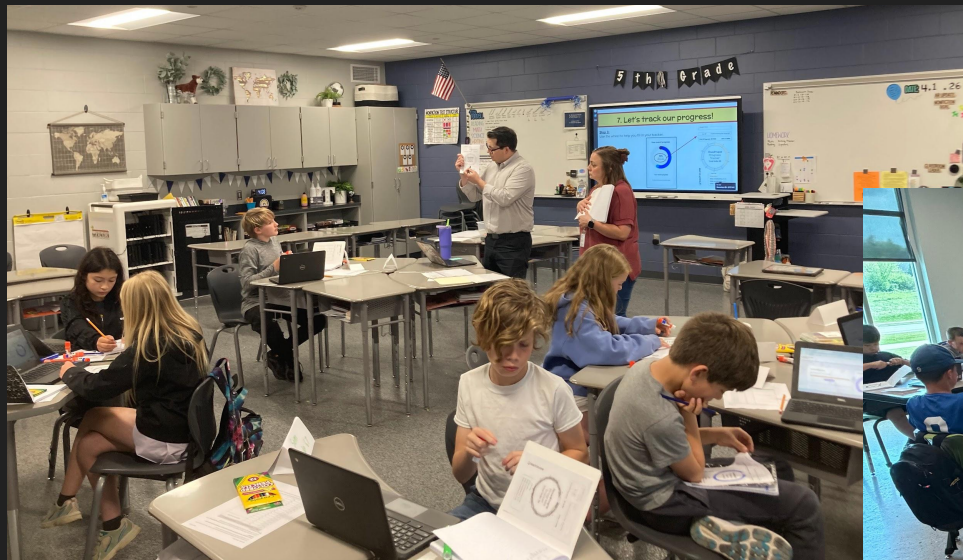
- Personalized pathway allows for filling gaps and grade level proficiency at the same time - aligned to our HQIMs

After-School Math Sessions

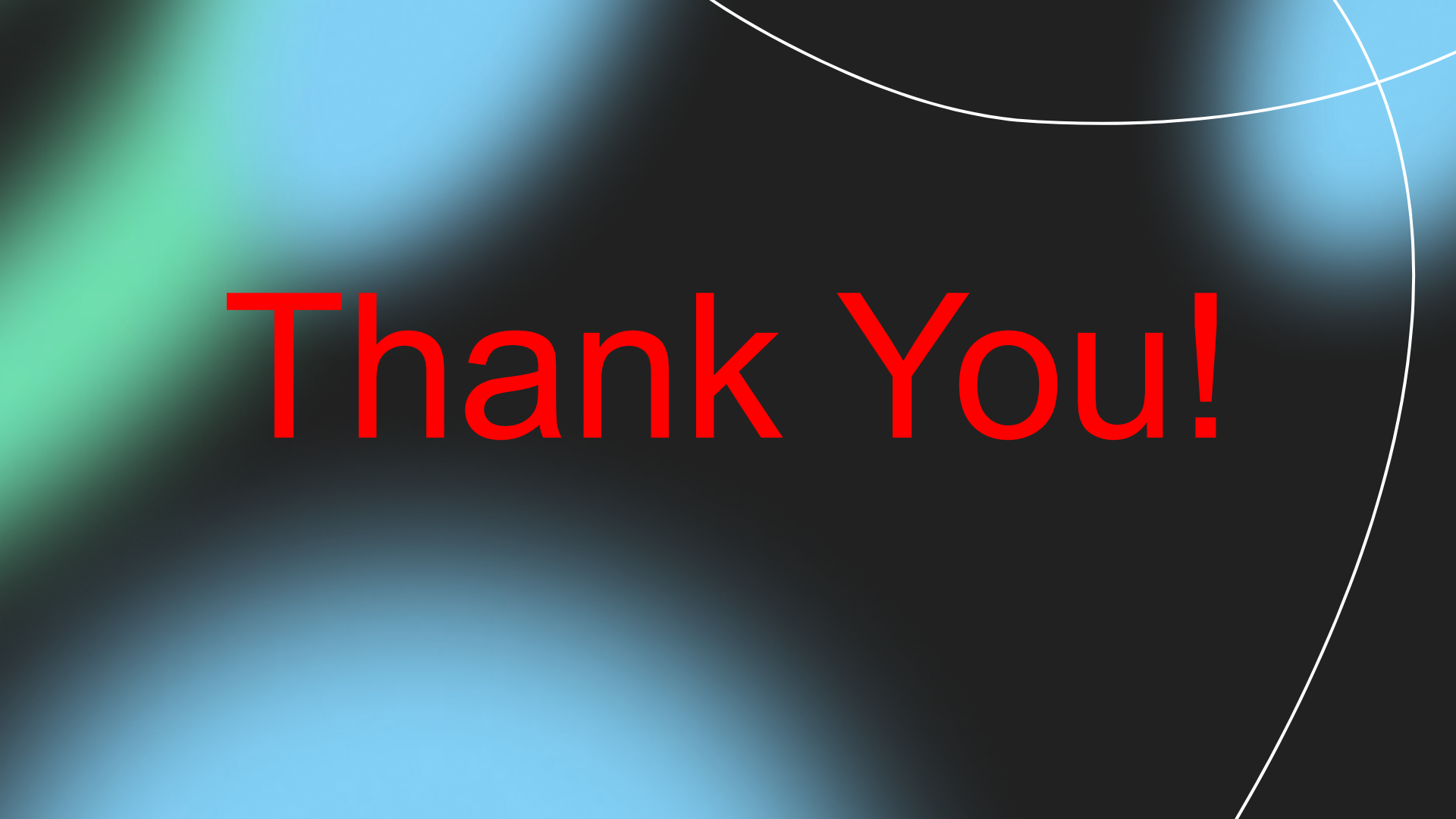
APRIL				
Monday	Tuesday	Wednesday	Thursday	Friday
		1	2	3
6	7	8	9	10
13 In Person Welcome 1. Learn Teach to One 2. Note-taking 3. Goal-setting	14 In Person 120 Triangle Area 647 Area by Decomposition	15	16 In Person 122 Nets of 3_D Shapes 508 Nets & Surface Area	17
20 In Person 187 Multiply Mixed Numbers	21 In Person 644 Divide Fractions with Models	22	23 In Person 318 Divide Fractions	24 NO SCHOOL
27 In Person 233 Add & Subtract Large Decimals	28 In Person 186 Multiply Decimals - Standard Algorithm	29	30 In Person 532 Divide Whole - Standard Algorithm 216 Divide Decimals - Standard Algorithm	

MAY				
Monday	Tuesday	Wednesday	Thursday	Friday
				1
4 In Person 231 Represent Fractions as Decimals	5 In Person 649 Add & Subtract Fraction Word Problems	6	7 In Person 726 Real World Problems with Rational #s	8
11 In Person 732 Statistical Questions 225 Dot & Line Plots	12 In Person 105 Mean of Data Sets 293 Median & Mode	13	14 In Person 123 Box & Whisker Plot 302 Measure of Center	15
18 In Person 140 Create & Read Histograms	19 In Person 199 Sampling Methods 537 Describe Data Sets	20	21	22
25 SUMMER BREAK	26	27	28	29

After-School Math Sessions



Questions,
Comments, or
Concerns?



Thank You!