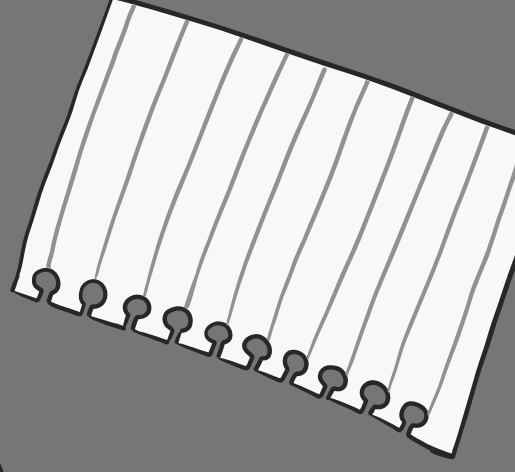
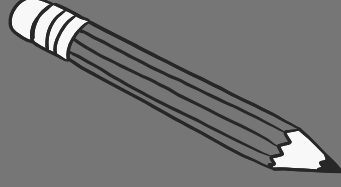
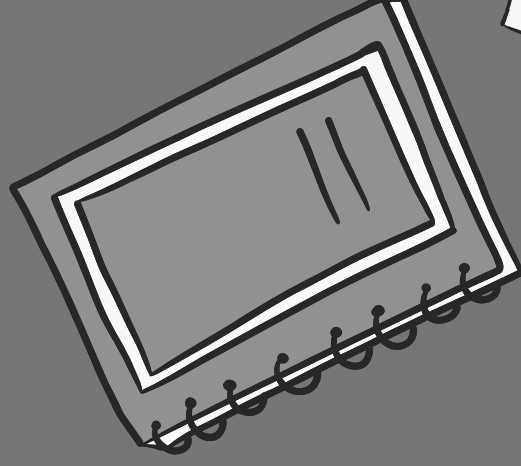


Curriculum report 2023

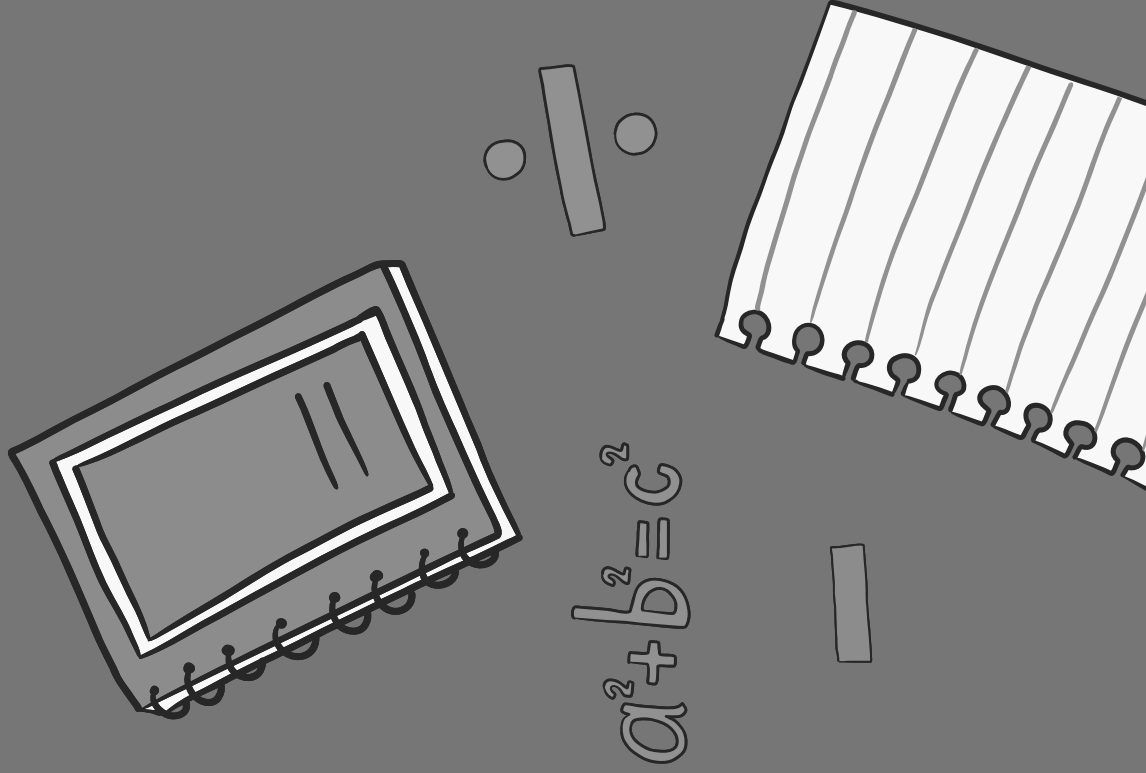
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$a^2 + b^2 = c^2$$

Summer Instruction

June, 2023



Summer School (Math/Reading Camp)

- K-6: 230 students in K-6 Summer Reading or Math Camp(53 were in two of the three areas- reading, math, or ELL)
- 7th graders: 13 reading, 15 math
- 8th graders: 12 reading, 9 math

Secondary Summer School

- 7-8 Students: 56
- Credits/courses recovered:
 - Math = 24 English = 35 Science = 18 SS = 18
 - Electives (Art, Music, PE, IT) = 42
- 9-12 Students: 40
- Credits recovered:
 - Math = 8 English = 15 Science = 4.5 SS = 9.5
 - Electives = 3

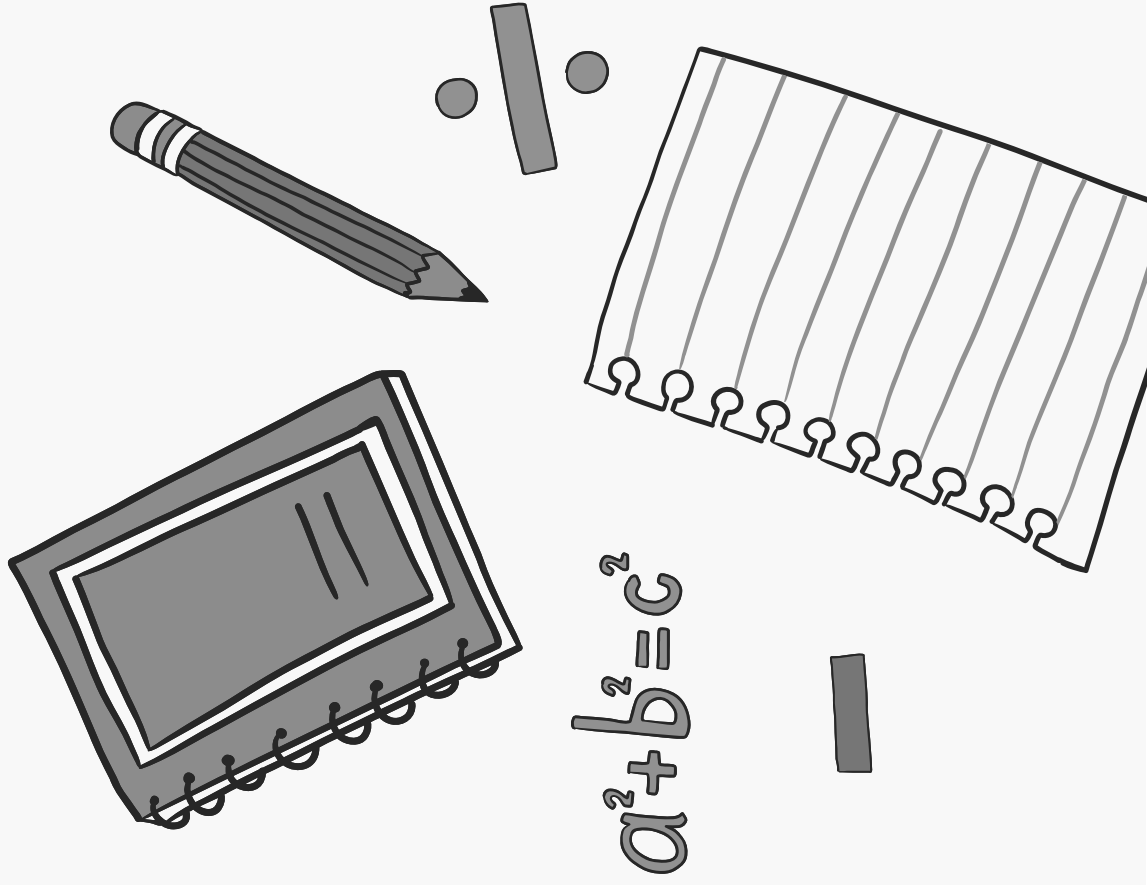
Extended School Year (ESY)

- For students with an IEP
- Instructors: 3 EC, 6 K-6, 5 SLC, 2 HS, 3 SLP and OT staff, 4 paraprofessionals, 2 transportation
- 69 K-6 students
- 16 SLC students
- 13 students for credit recovery (HS)
- 11.5 credits earned

English as a Second Language (ESL) English Language Learners (ELL)

- For students with limited English proficiency
- Focus on reading, writing, and speaking in English
- Goal is to prevent loss of language/regression
- 19 K-6 students
- 5 7-12 students

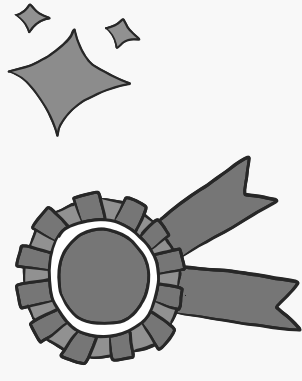
Curriculum: The Big Picture



A curriculum is an organized plan of instruction comprised of a sequence of instructional units that engages students in mastering the standards. Resources such as instructional materials and textbooks are supports for the curriculum.

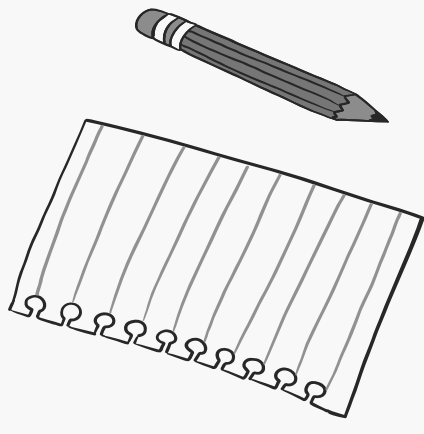
Purpose of Curriculum

- **GOAL: To create the best learning opportunities for ALL students.**
- Research base
- Coverage/content
- Consistency
- Quality Instruction
- Responsive



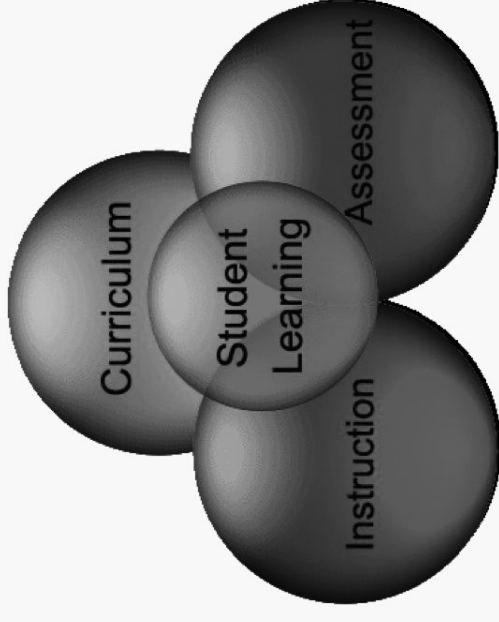
Products of Curriculum

- Curriculum Map
- Textbook and material selections
- Pacing Guide (or calendar)
- Course selection/sequence
- Common Assessments
- Instructional practices



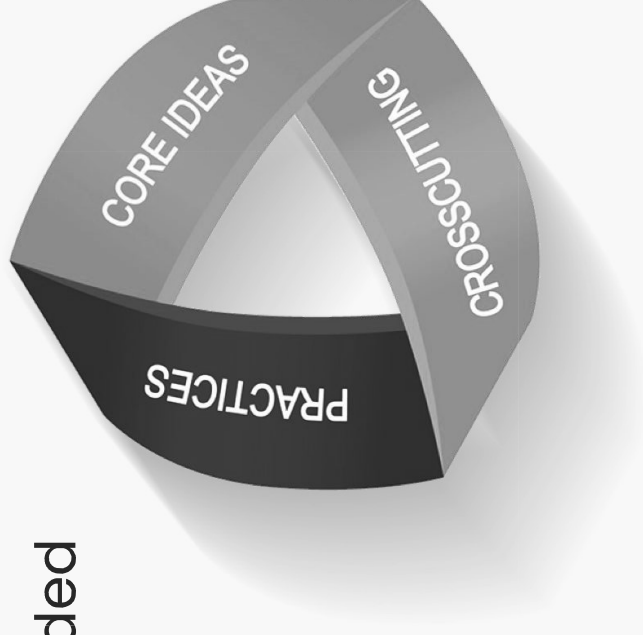
Curriculum Cycle

- Follows state adoption cycle
- 7 year cycle
- Purchases and budget
- 2+ year process for each content area
- Involves representatives of all grades



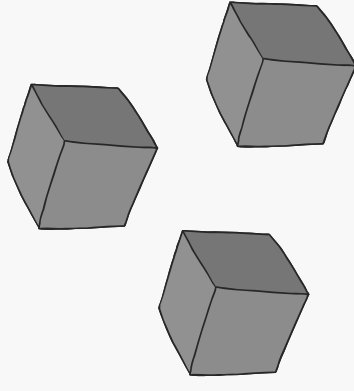
Year Two: Science

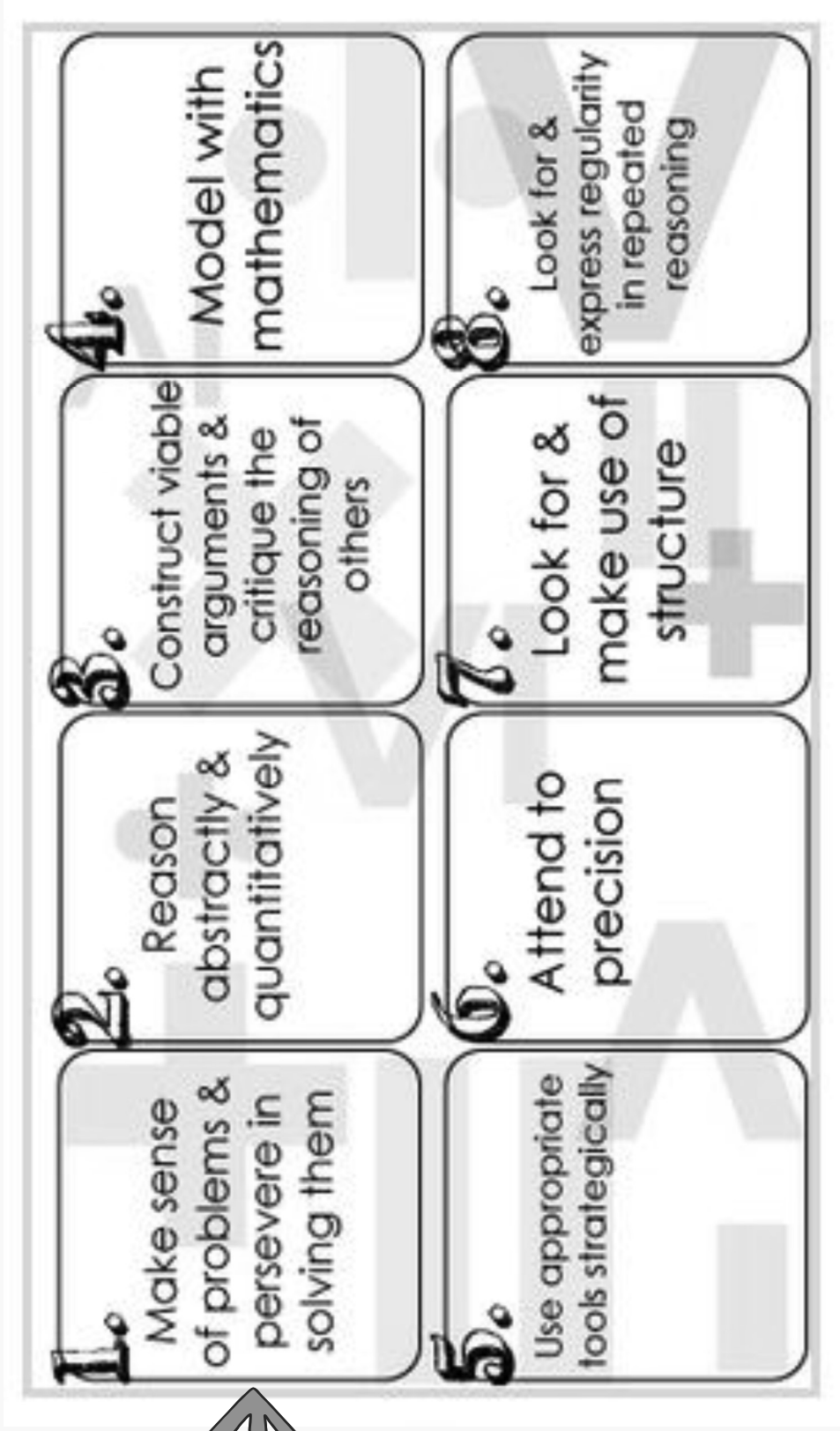
- K-5 continue with Mystery Science
- 6-8 will teach integrated rather than banded
 - Earth, Life, Physical Science
- 9-12 revised course offerings
- Focus on common assessments



Year One: Math

- SD Standards for Mathematics (2018)
 - Emphasis on Standards of Mathematical Practice
 - Specific learning at each grade level
- Developmental progression of skills
- Foundational Math Study
- Science of Remembering
- Examine current math programming





Standards of Math Practice

Number Core

- Number sequence
- 1-1 Correspondence
- Cardinality
- Subitizing
- Zero
- Counting on

Relations Core

- More, Less, and Same
- +1, -1, +2, -2
- Benchmark Numbers (5,10)
- Part-part-whole
- Teen numbers
- How these all build up to higher numbers

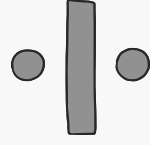
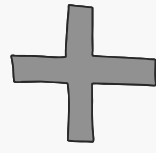
Operations Core

- Addition and Subtraction
- Multiplication and Division
- Contextual Problem solving
- Big spaces = big thinking
- Intention in scaffolding
- Prior Progressions Matter

Fact Fluency

Fluency is being able to solve problems:

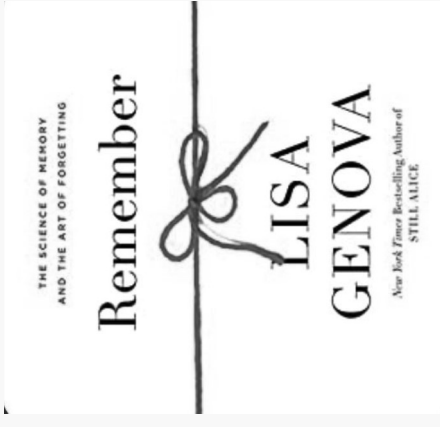
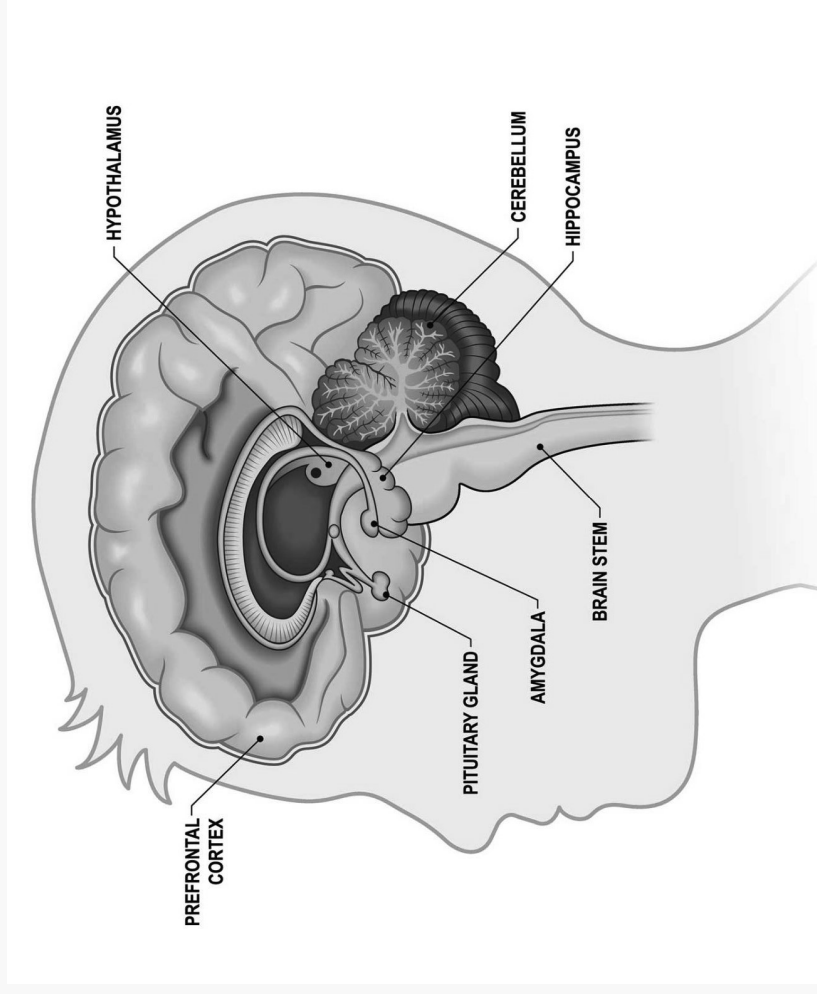
- Flexibly
- Accurately
- Efficiently
- Appropriately



Fluency moves from:

1. Counting
2. Reasoning
3. Mastery

Science of Remembering



	Traditional	Accelerated	TAG	Special Ed
Qualification	None. Also includes Title and ARC	Math aptitude, teacher identification	Qualify for TAG with math specific scores	IEP
Grades K-4	Classroom	Classroom	Classroom	Classroom/individual IEP
Grade 5	Classroom	Classroom	6th grade Math +	Classroom/individual IEP
Grade 6	Classroom	Classroom +	Pre-Algebra +	Classroom/individual IEP
Grade 7	7th grade Math	Pre-Algebra	Algebra I	Classroom/individual IEP
Grade 8	Pre-Algebra	Algebra I	Accelerated Geometry	Classroom/individual IEP
Grade 9	Algebra I	Accelerated Geometry	Accelerated Algebra II (dual credit)	Independent Algebra I OR Inclusion Algebra I OR Consumer Math
Grade 10	Geometry	Accelerated Algebra II (dual credit)	Precalculus	Independent Geometry OR Inclusion Geometry OR Consumer Math
Grade 11	Algebra II	Precalculus * Statistics	* Statistics	Independent Algebra II OR Inclusion Algebra II OR Consumer Math
Grade 12	Trigonometry and/or *Statistics	AP Calculus	AP Calculus	
Math Interventions, Skills Lab				

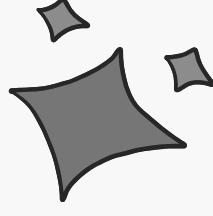


Effective Mathematics Teaching Practices

1. Establish mathematics **goals** to focus learning.
2. Implement **tasks** that promote reasoning and problem solving.
3. Use and connect mathematical **representations**.
4. Facilitate meaningful mathematical **discourse**.
5. Pose purposeful **questions**.
6. Build procedural **fluency** from conceptual **understanding**.
7. Support productive **struggle** in learning mathematics.
8. Elicit and use **evidence** of student thinking.

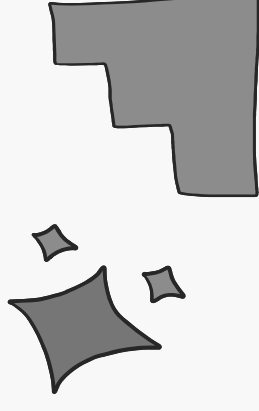


NATIONAL COUNCIL OF
TEACHERS OF MATHEMATICS



Math Next Steps

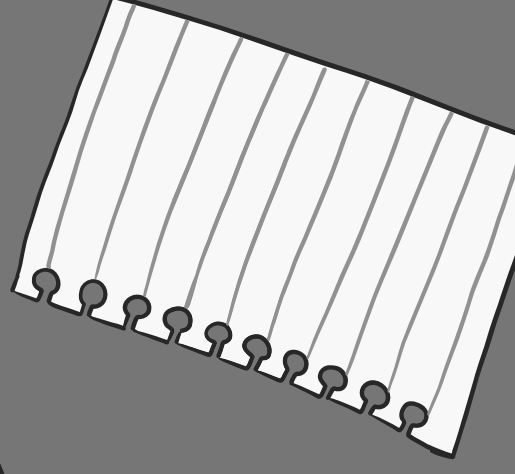
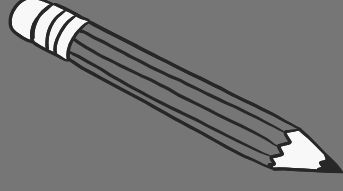
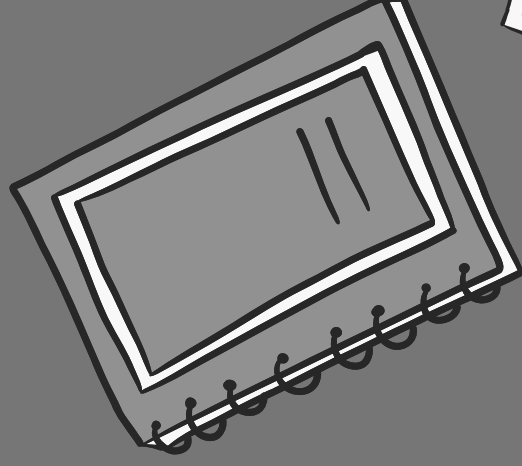
- Re-emphasize SMPs
- Focus on instructional practices to increase retention
- Professional development around mathematical progressions
- Use of data
- Examine programming needs
 - Time for math instruction
 - Math acceleration
- Review of materials



Staff Development

2023

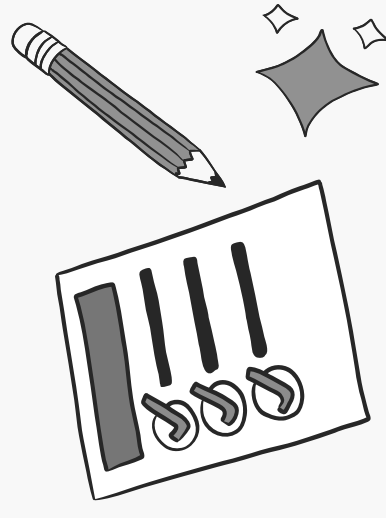
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



$$a^2 + b^2 = c^2$$

Sheltered Instruction Observation Protocol (SIOP)

- Instructional strategies to support ELL students
- 2-day training
- All 5-12 staff were trained, over 150 participants
- Follow-up through the year



Online Course Options

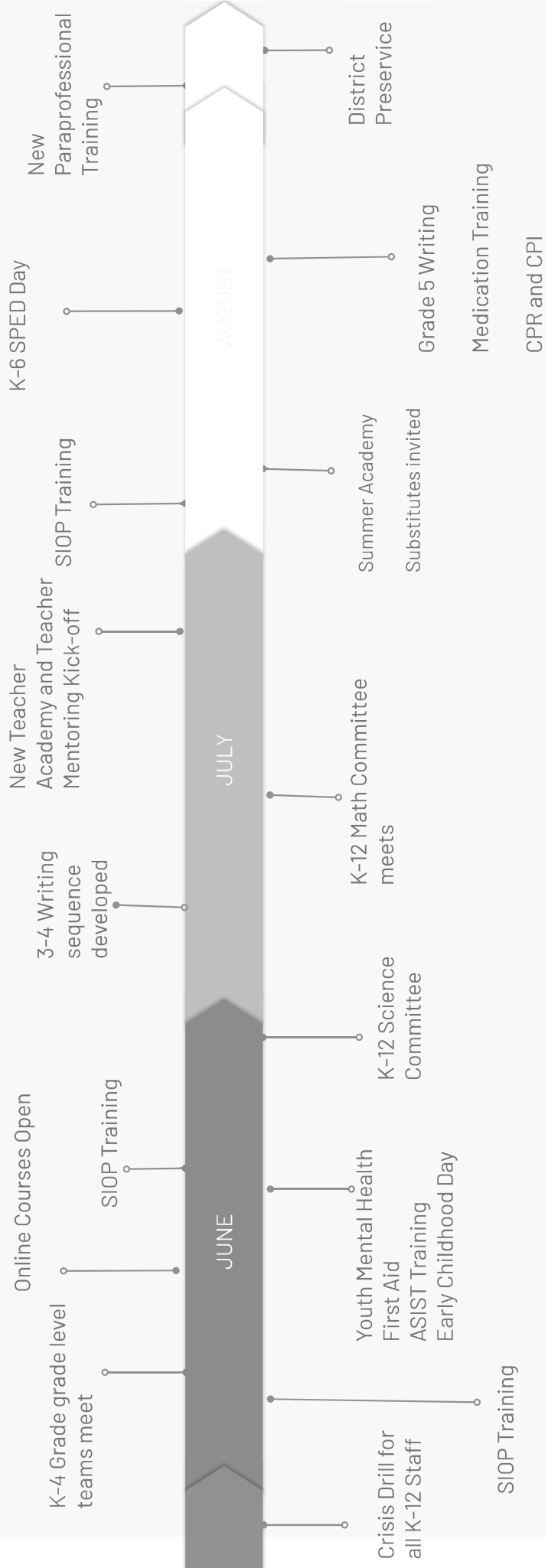
Becoming a Daily 5 Classroom Book Study	10	1 credit
Foundational Best Practices in Math Instruction	9	1 credit
Principles to Action Mathematics Book Study	8	1 credit
Grading Smarter Not Harder Book Study	7	1 credit
Lessons from LETRS	5	2 credits
Purposeful Play Book Study	9	1 credit
Shifting the Balance Book Study	4	1 credit
SIOP Strategies to Support ELL Students	60	1 credit
Welcome to Writing Workshop Book Study	6	1 credit
Virtual Mental Health Trainings		
Virtual SPED Topics		

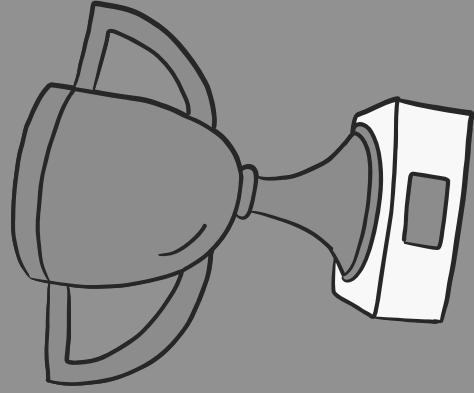
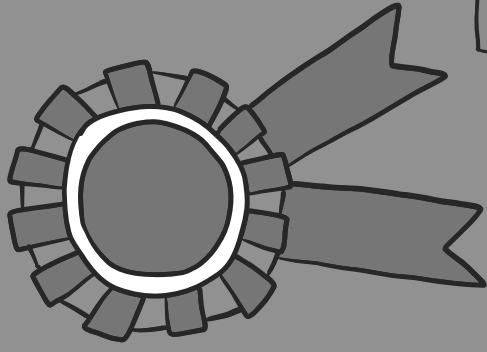
Summer Academy, August 2023

- About 100 different people attended over 1000 hours of classes
- Approximately 50 sessions
-

Summer Academy 2023	22	1 credit
Summer Academy 2023	5	2 credits

Professional Development Timeline





$$a^2 + b^2 = c^2$$

Thank you!!