

Curriculum & Instruction

Annual Report

2023-2024

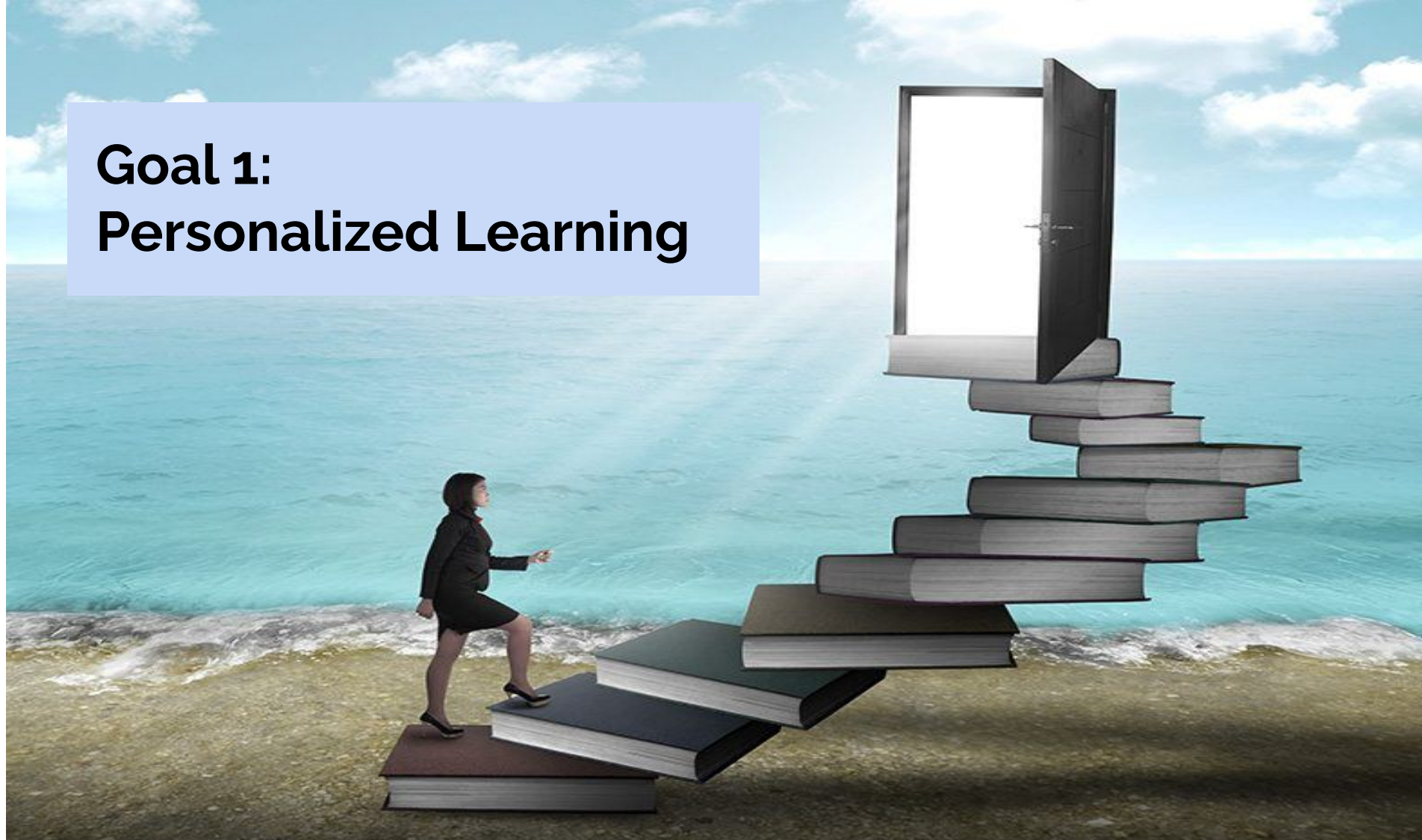
Dr. Barbara Gould
Chief Academic Officer



District Mission Statement

Building upon our tradition of excellence, the mission of the West Windsor-Plainsboro Regional School District is to empower **all learners** to thoughtfully contribute to a diverse and changing world with confidence, strength of character, and love of learning.

**Goal 1:
Personalized Learning**



**Goal 2:
Global Citizenship**



**Goal 3:
Social & Emotional**



**Goal 4:
Equity**



Summer 2023 Learning

Professional Development

Professional Development

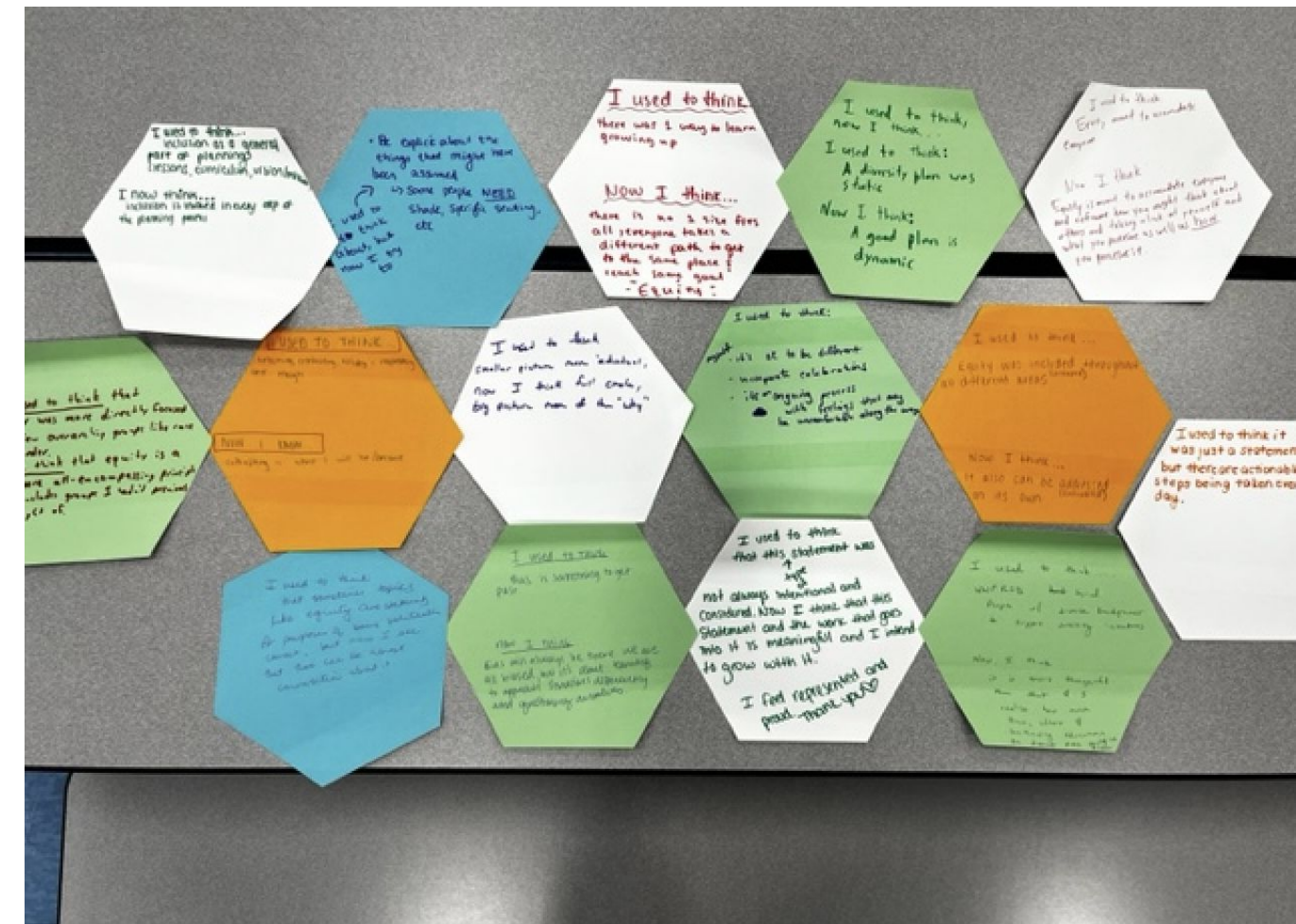
- Administrative Retreat
- New Teacher Orientation (4 Day)
- Small Group Instruction
- Avid Summer Workshop (2 Day Workshop)
- Multi-Level Institute
- DLI Team Expansion Day 1
- DLI Team Expansion Day 2
- Creating Spaces for Learning through Structured and Unstructured Play
- Instructional Practices to Support English Language Learners K-4
- Phonics Assessments
- F&P 2.0
- F&P Refresher
- Instructional Practices to Support English Language Learners Grades 6-12
- Number Sense Routine Committee PD: Community, SEL & Math
- Secondary Math Bookclub
- Math by the Book: Infusing Literacy in Mathematics, Grades 3-5
- Math by the Book: Infusing Literacy in Mathematics, Grades K-2
- Bringing It All Together: Math Workshop & Our Resources
- Secondary Math Bookclub
- Maximizing your Impact: Equity in Mathematics K-5
- Middle School Music Technology

Professional Development

- Biology, Multi-level, Instruction and Assessment
- Physical Science Concepts for Elementary Teachers
- Life Science Concepts for Elementary Teachers
- Earth Science Concepts for Elementary Teachers
- Inquiry and Equity: Social Studies Practices Grade 4
- Inquiry and Equity: Social Studies Practices Grades K-2
- Inquiry and Equity: Social Studies Practices Grades 3 & 5
- Inquiry and Equity: Social Studies Practices Grades 6 & 7
- Inquiry and Equity: Social Studies Practices Grades 9-12
- Inquiry and Equity: Social Studies Practices APUSH & Make-up
- Special Services Standard Operating Procedure Manual
- Handle with Care - Initial Training
- Handle with Care-Refresher Training
- CBVI and O&M training (2 Day)
- Creating a Goal-focused Classroom through Culturally Responsive Teaching and Differentiation (2 Day Class)
- Responsive Classroom: Elementary Core Course - 4 days

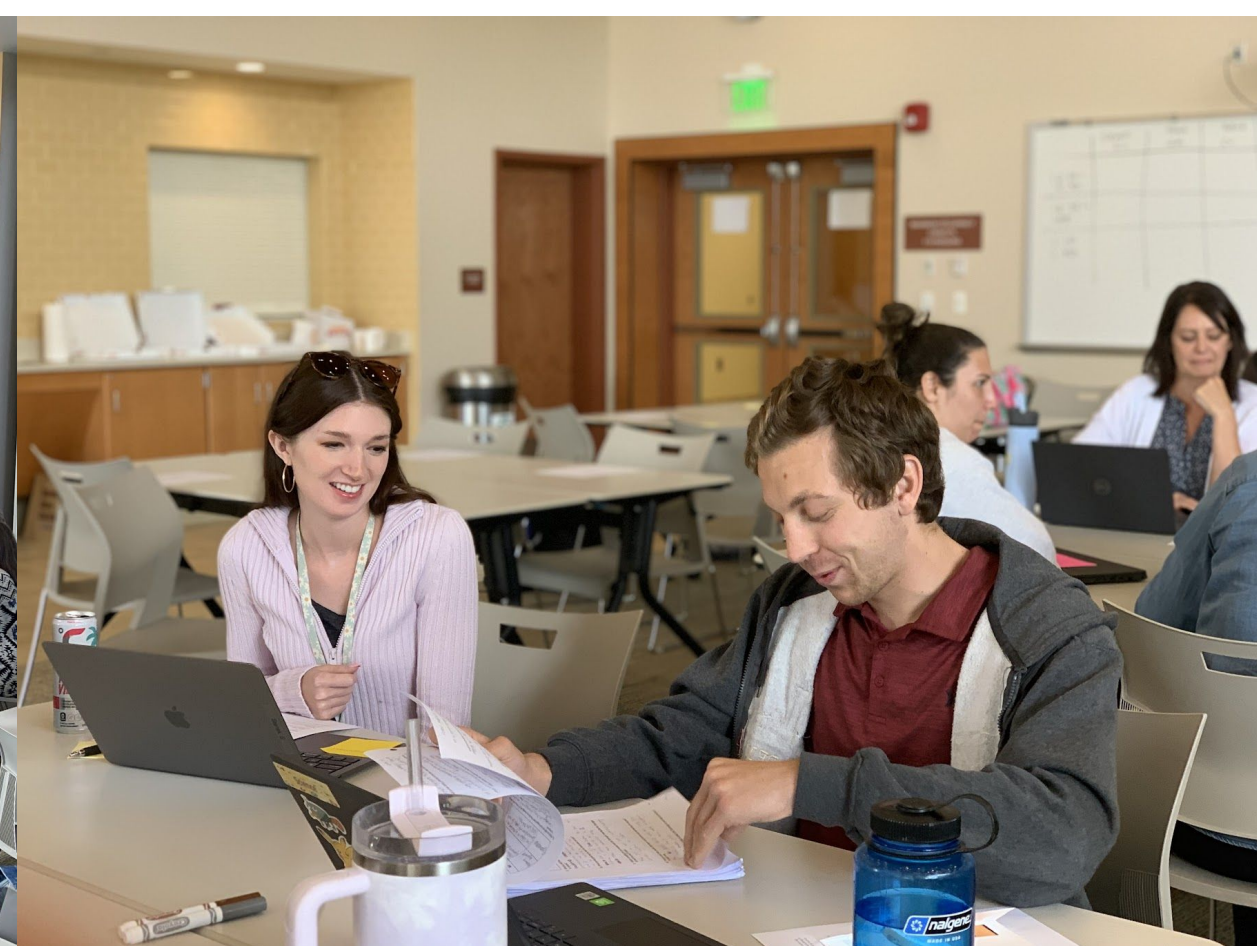
Professional Development

- Creating a Community of Learners: Strategies and Techniques for Evidence Based Social-Emotional Learning Programs (2 Day Class)
- Teaching with ChatGPT and AI
- Beginner/Intermediate Canva





Administrative Retreat



SEL Goal: Responsive Classroom PD

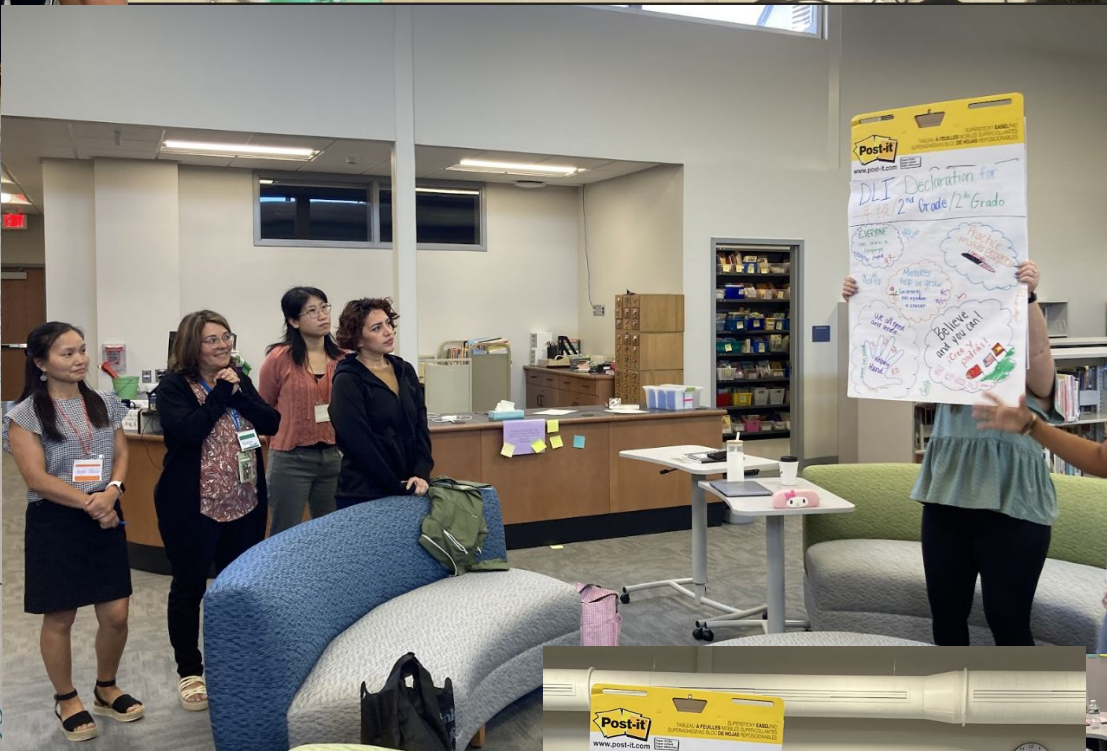
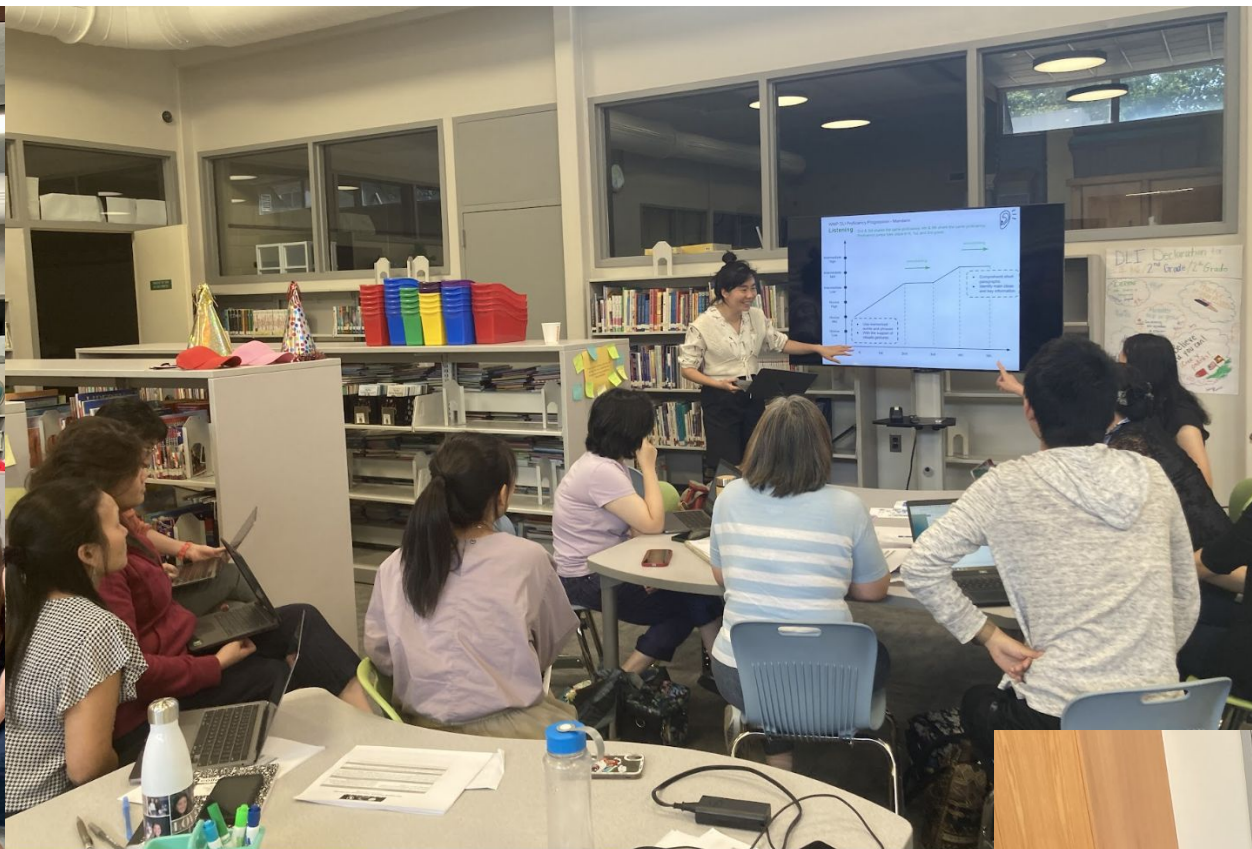
Apology of Action

<u>Ways we "break" relationships</u>	→	<u>Ways we mend relationships</u>
1. Excluded you at recess	→	Choose a recess period where we do something together
2. I put you down for making a mistake	→	I'll give you a list of things you're good at
3. I said something unkind about you/myself	→	<u>I might...</u> <ul style="list-style-type: none"> • Write you a letter • Tell you something positive about yourself/myself • Include you as a partner or more group activities in and out of the classroom

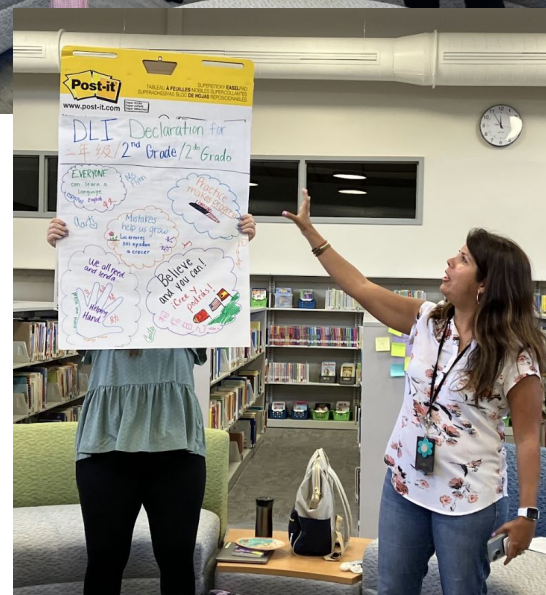
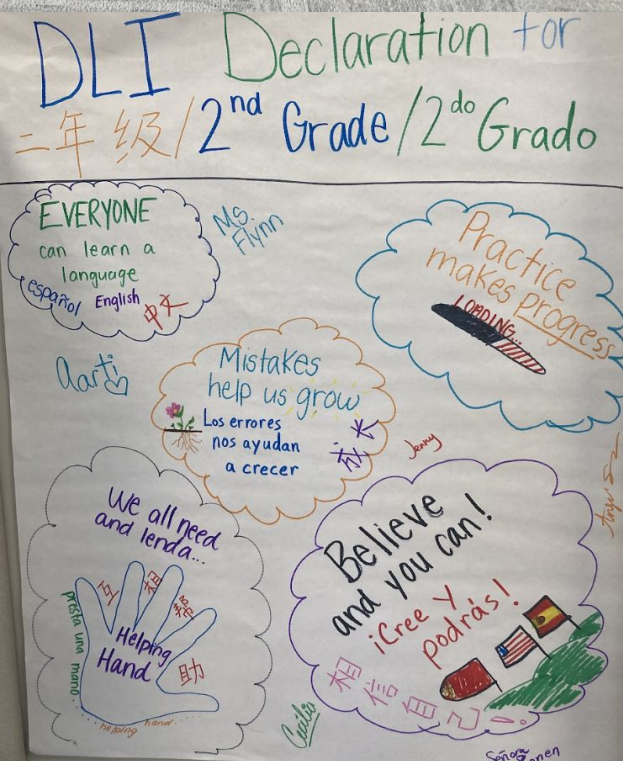




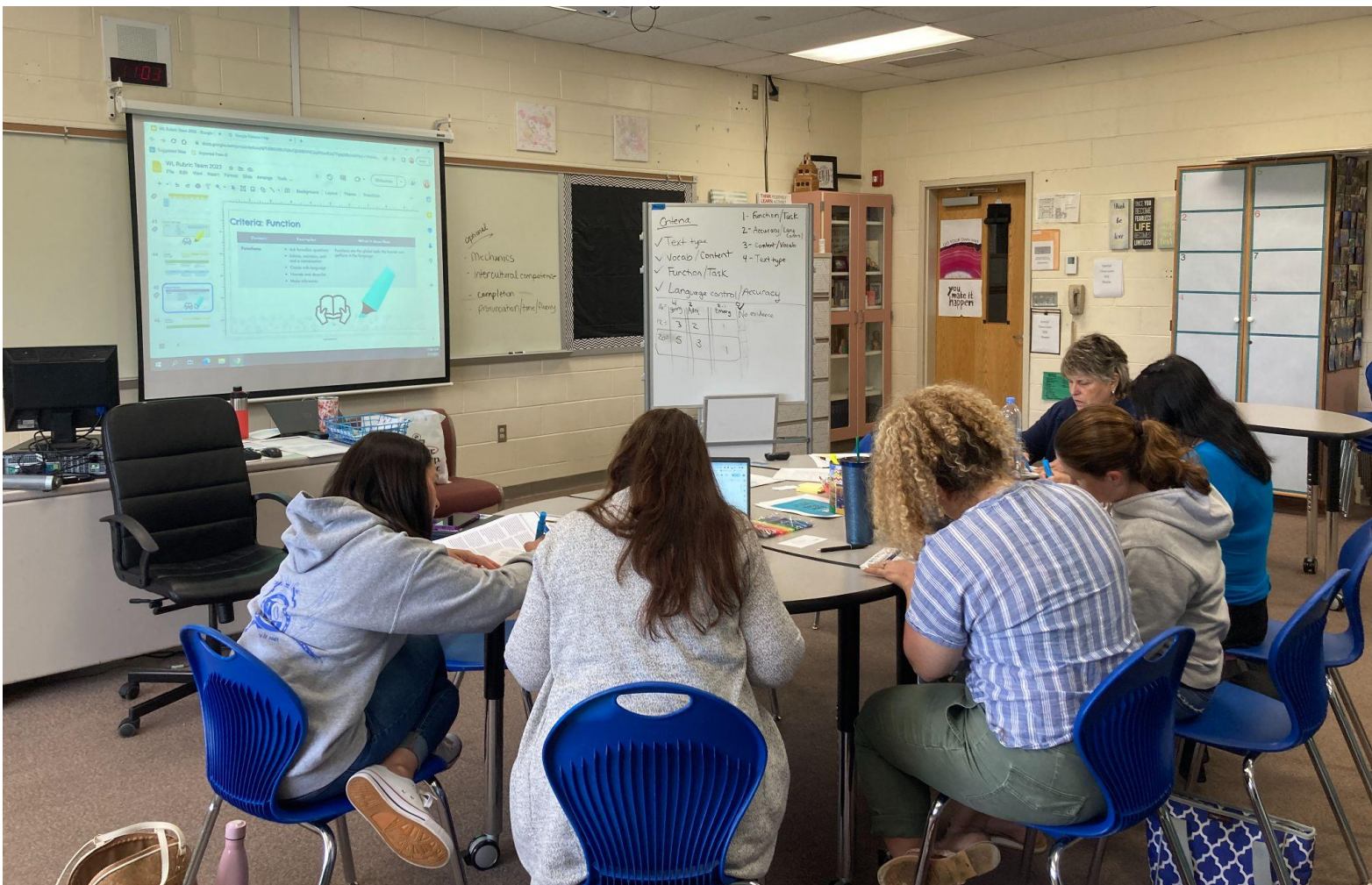
DEI Goal: Creating a Goal Focused Classroom through Culturally Responsive Teaching PD



Over 500 WWP students are currently enrolled in DLI (grades K-5)



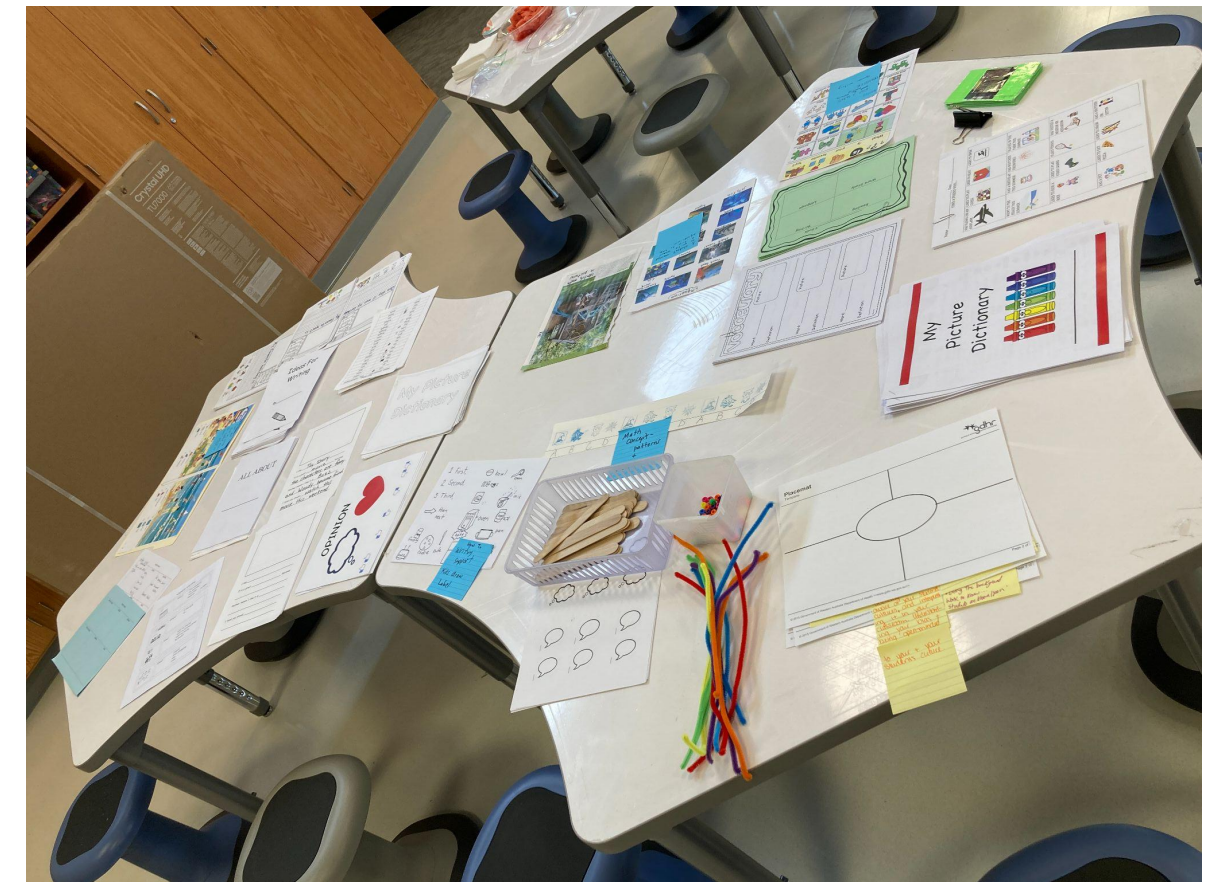
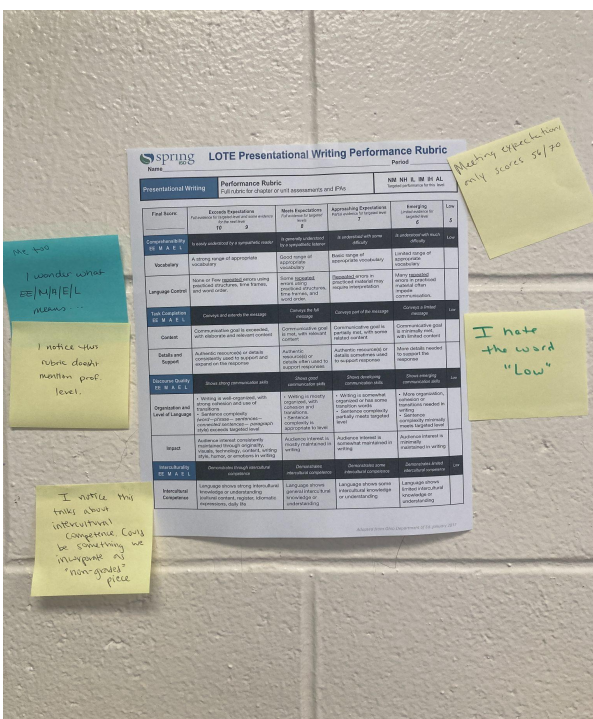
C&I: DLI PD



World Language Proficiency Rubric PD



ELL Teachers hosted Sheltered English Instruction (SEI) training for K-5 staff and 6-12 staff



C&I: World Language & ELL PD



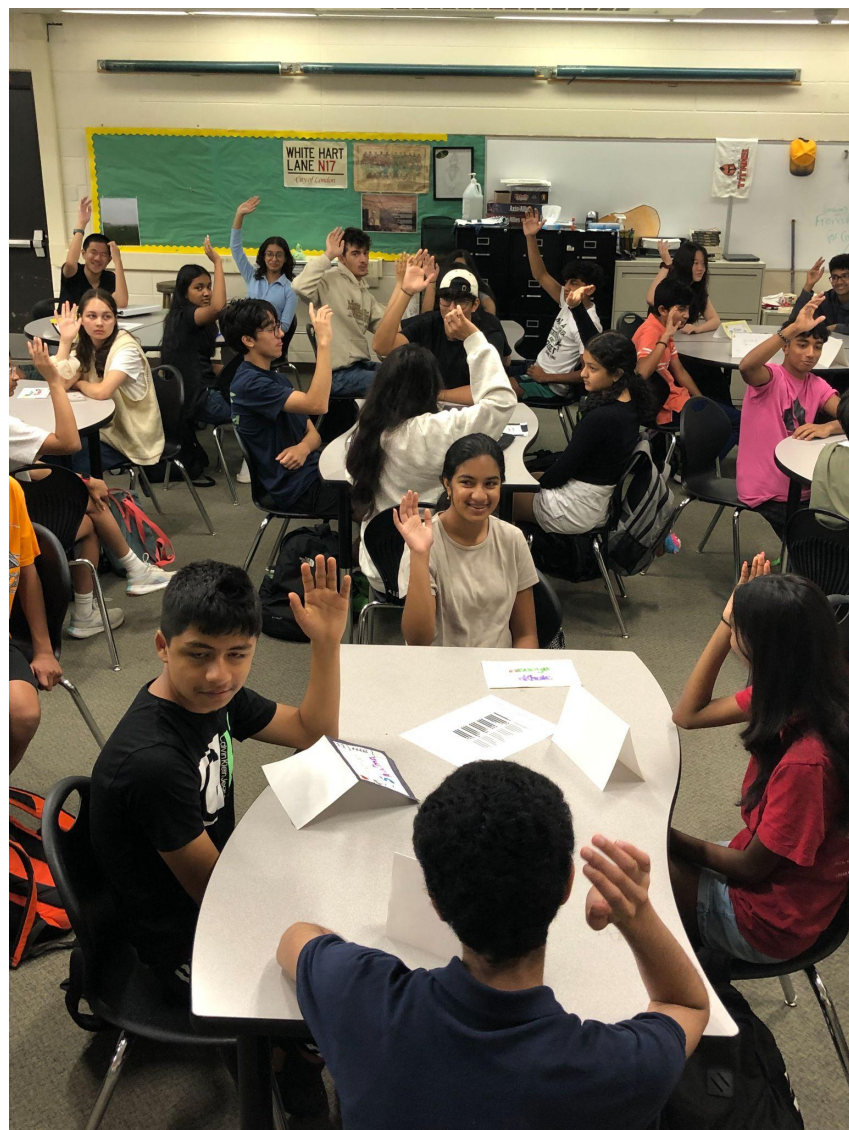
C&I: Full Day K



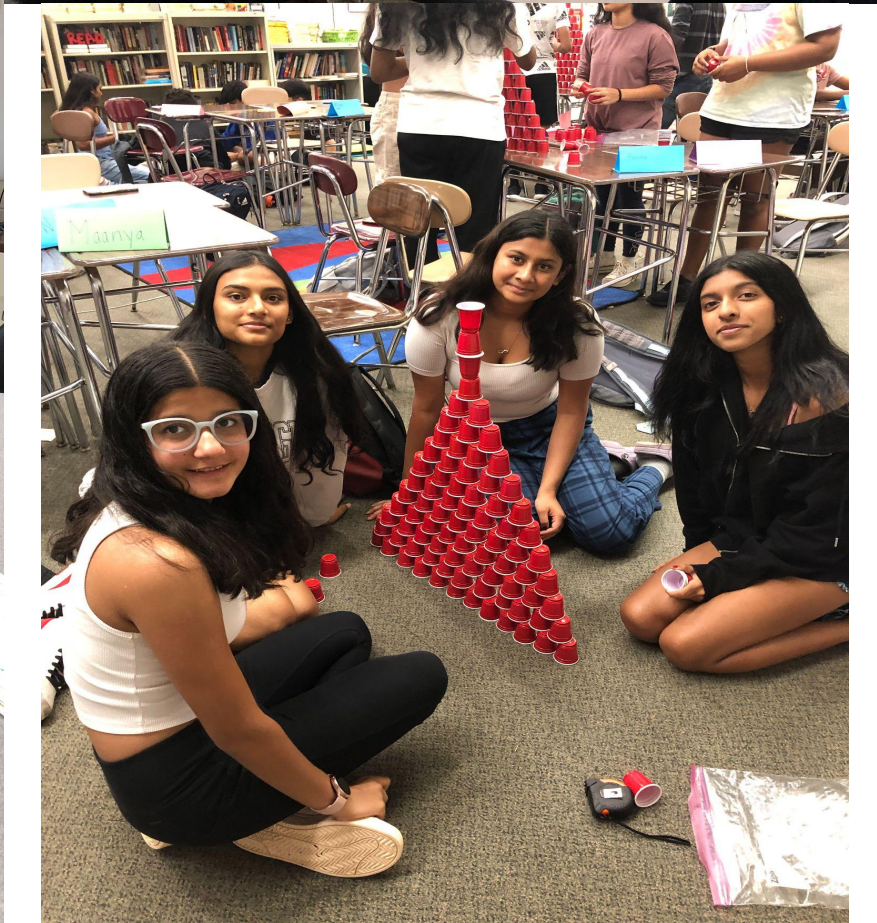
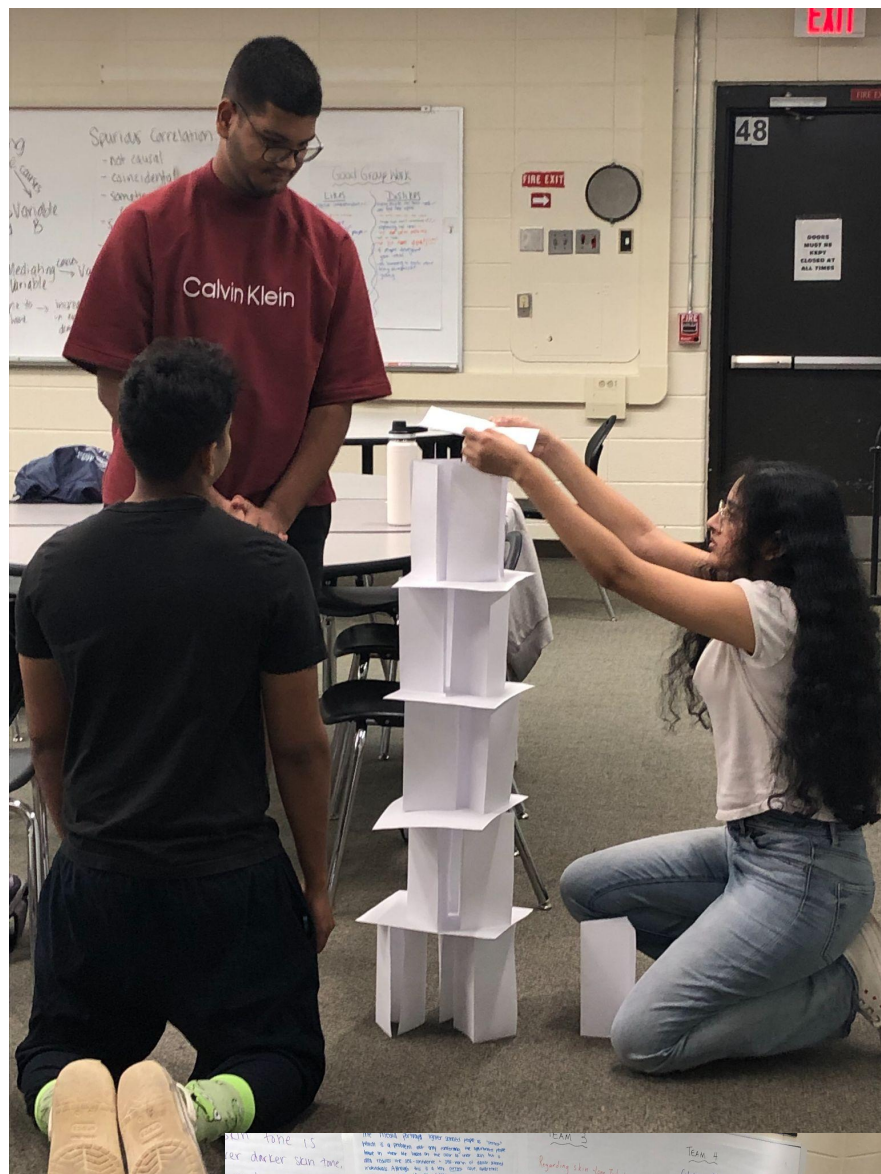
C&I: New Teacher Orientation



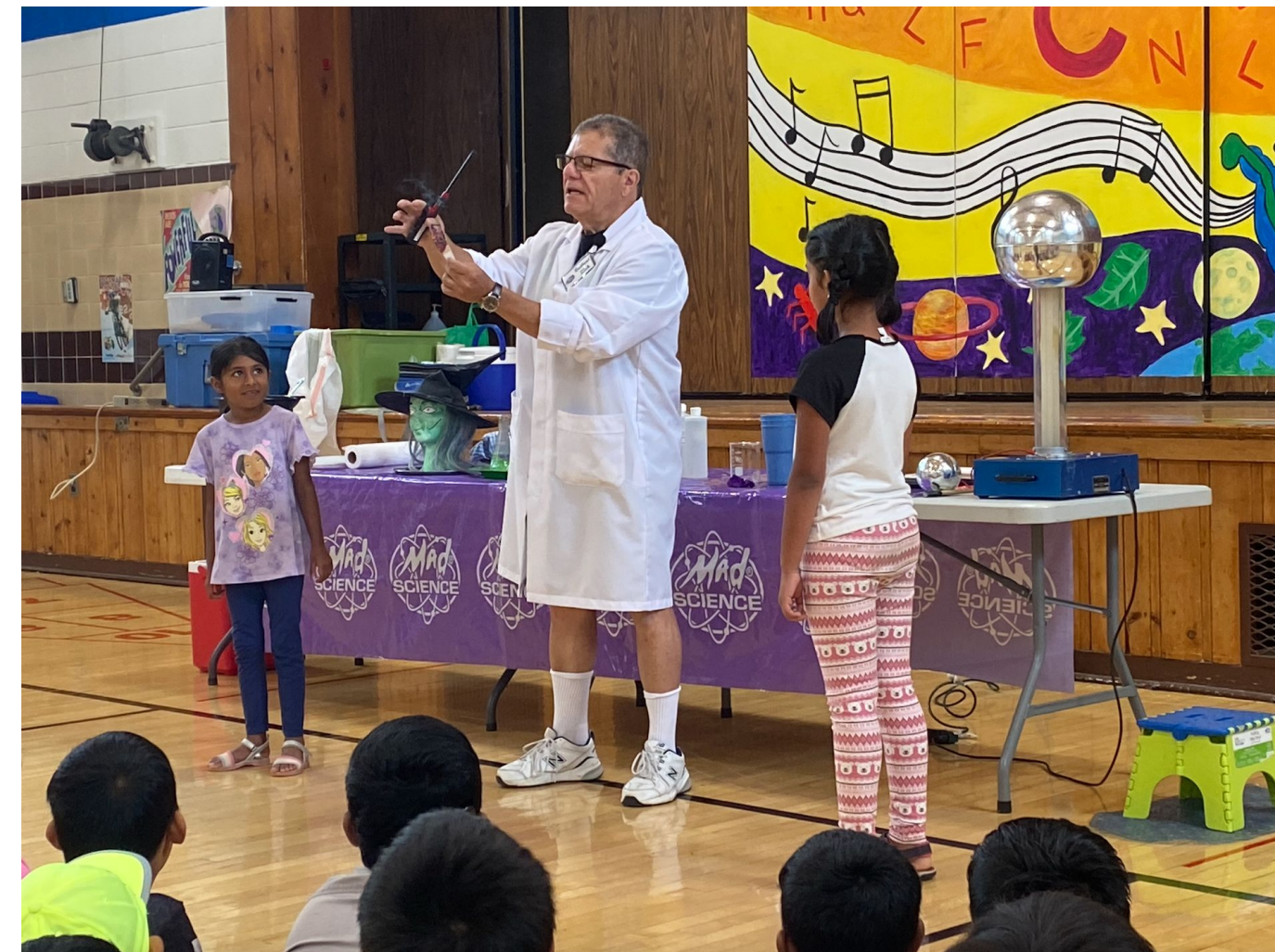
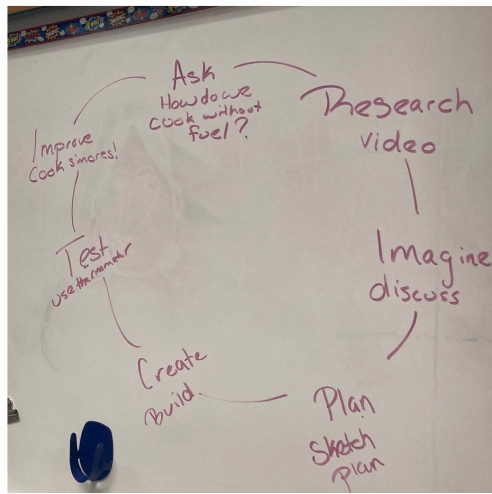
Data Science



Discrete Math



C&I: Math Summer Courses



C&I: ELL Camp

Curricula Projects

New Curricula

- **Math 6**
 - Pre-Algebra H&A
 - Algebra & Trigonometry
 - **Music**
 - **Technology II**
 - Dance II
 - Art Kindergarten
 - Theatre Arts II
 - 11th and 12th grade Elective PE
- **DLI Grade 5 Spanish Literacy & Culture**
 - **DLI Grade 5 Chinese Literacy & Culture**
 - **Language Arts 9th Grade**



Components of Curricular Documents

Consistent Parts of Each Document

- Summary & Rationale
- Recommended Pacing
- NJ Student Learning Standards
- NJ Companion/ Interdisciplinary Standards
- Unit Enduring Understandings
- Objectives
- Evidence of Learning (Assessments)
- Resources
- Designed in Units

Curricular Storyboards

Equity Statement & Core beliefs

Math Equity Statement

ALL learners should have access to rigorous, high-level mathematical content in an environment where risk-taking, deep conceptual understanding, and growth mindset are the norm.

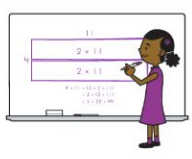
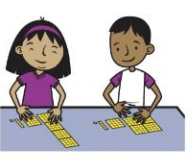

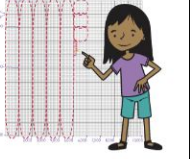



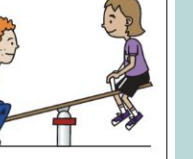
Core Beliefs:






Our district's strategic goals prioritize teaching and learning from a productive standpoint. Building upon the principles of *Catalyzing Change in High School Mathematics*, we aim to cultivate equitable mathematics practices and shift from deficit-based to productive beliefs. According to the National Council of Teachers of Mathematics (NCTM, 2020), "Mathematics education must be equitable, ensuring that each and every student has access to high-quality mathematics teaching and learning opportunities." Our objective is for every student to perceive themselves as capable, knowledgeable, and meaning-makers in mathematics.

Drawing from *Catalyzing Change* and *Mathematical Mindsets* by Jo Boaler (2016), we embrace the following beliefs:

- All students are capable of learning mathematics at high levels.
- All students will progress on their mathematical journey.
- Developing a growth mindset is essential for learning.
- Visual and deep thinking enhance mathematical understanding.
- Mathematics learning is fostered through discourse and collaboration.
- Mistakes are integral to the learning process.

Other Components to Support

Trimester 1			Trimester 2			Trimester 3	
Unit 1: Multiplicative Thinking	Unit 2: Multi-Digit Multiplication & Early Division	Unit 3: Fractions & Decimals	Unit 4: Addition, Subtraction & Measurement	Unit 5: Geometry & Measurement	Unit 6: Multiplication & Division, Data & Fractions	Unit 7: Reviewing & Extending Fractions, Decimals & Multi-Digit Multiplication	Unit 8: Playground Design
							
The Story of the Unit This first unit explores the question: "How can we understand & apply multiplication and division concepts effectively?" Students use tools like open number lines, arrays, and ratio tables. They will have opportunities to discuss their ideas with others. They use a method called the area model to explore factors, multiples, and different types of numbers. Students also work with equations that involve multiplication and division. The unit ends with the concept of multiplicative comparison as it applies to the world of measurement.	The Story of the Unit In this unit students continue to develop their understanding of multiplication and division by exploring patterns in numbers and solving multiplication problems with one or two digits. They transition from concrete models to pictorial models. They also work with ratio tables to understand the effects of multiplying by 10, 100, and 1,000. Finally, students take on division problems that involve dealing with remainders in different situations.	The Story of the Unit In this unit, students will use a variety of tools to understand and work with fractions and decimals. They learn to model, read, write, compare, order, compose, and break down fractions and decimals. Additionally, they apply their knowledge to practical, everyday situations. The unit provides a hands-on and real-world approach to learning about fractions and decimals.	The Story of the Unit The fourth unit revisits addition, subtraction, and measurement concepts as students delve into the standard algorithms for addition and subtraction and compare them with alternative methods to determine their effectiveness. Students will then move into exploring various measurement aspects as they also investigate the connections between different units of measurement. The unit ends with students working with problems that involve converting units within the same measurement system.	The Story of the Unit In this unit, students are introduced to several new geometric concepts, including angles and their measurement, parallel and perpendicular lines, and reflective symmetry. They use vocabulary terms and geometric concepts to sort and classify various polygons. Students will delve into measuring the area and perimeter of rectangles, leading to generalizations that introduce the formulas for both. The unit ends with a return to angle measurement, emphasizing that angles involve rotations around a fixed point and can be combined or added together.	The Story of the Unit The instruction in this unit aims to foster a deeper understanding of the connections between multiplication and division. Each module offers diverse opportunities for students to model, solve problems, share strategies, play games, and apply skills in various situations.	The Story of the Unit Unit 7 focuses on reinforcing and building upon students' fractional understanding. Students will explore equivalence and comparing fractions with different denominators. In the later part of the unit, students revisit and refine the strategies they have learned for multiplication involving larger numbers as well as the standard multiplication method.	The Story of the Unit In the final unit, students engage in a hands-on project where they design and construct scaled model playgrounds featuring simple machines. To determine which playground items are most essential, they conduct a survey within the school community and present the data using graphs. Students use what they know about measurement to create a scaled map of their designs and build 3-D scaled models.
Learning Targets We will: <ul style="list-style-type: none">Fluently multiply and divide within 100Apply properties of operations as strategies to multiply and divideUse multiplication and division within 100 to solve	Learning Targets We will: <ul style="list-style-type: none">Multiply by 10, 100, and 1,000Multiply 2-digit numbersRepresent multiplication with arrays and ratio tablesDivide with and without remainders	Learning Targets We will: <ul style="list-style-type: none">Compare fractions with like and unlike denominatorsLocate fractions on a number lineAdd and subtract fractions with like and unlike denominators	Learning Targets We will: <ul style="list-style-type: none">Compare multi-digit numbers and identify the value of the digits in such numbersUse the standard algorithms for addition and subtractionMeasure length, distance, liquid volume, time, mass,	Learning Targets We will: <ul style="list-style-type: none">Measure angles and determine angle measurements based upon given informationSort and classify shapes based upon the number and kinds of sides and angles they have	Learning Targets We will: <ul style="list-style-type: none">Multiply multi-digit numbersDivide a multi-digit number by a 1-digit numberSolve problems about the area and perimeter of rectanglesReview equivalent fractions,	Learning Targets We will: <ul style="list-style-type: none">Compare fractionsRecognize and generate equivalent fractionsRepresent and compare decimal numbersMultiply two-digit numbers with the standard algorithm	Learning Targets We will: <ul style="list-style-type: none">Learn about simple machines such as pendulums, levers, inclined planes, and wheelsResearch and evaluate considerations for playground features and safety through reading, online research, and

Physics Curriculum					Essential Question(s):	How can interactions between objects and systems of objects be explained? What are some of the mechanisms used to describe the interactions of submicroscopic particles and how they explain how technology works?
Unit 0: Motion: Defining what we observe around us in the world.	Unit 1: Forces: How interactions affect the motion of objects.	Unit 2: Energy and Momentum: Looking at interactions through a different lens.	Unit 3: Electricity and Magnetism: Interactions at a submicroscopic level.	Unit 4: Waves: Application of interactions at a technological level.		
						
Focus of the story	Focus of the story	Focus of the story	Focus of the story	Focus of the story		
Motion is observed everyday in life, but how can we come to an agreement on how it can be defined? Students will learn how to describe and measure the motion of objects within a defined frame of reference. They will investigate the many different ways in which objects can move while practicing important science skills. For example: modeling, question formation, experimental design, and analysis of data.	What causes motion in the first place? Now that motion has been defined, students will investigate the interactions that are the cause of an object's motion. Students will experiment and analyze data to determine the relationship between forces and motion. They will then study the mechanisms behind specific forces such as friction and gravity.	Are external forces the only way to describe motion? What happens inside a system of objects? Students will explore how interactions affect energy and momentum of objects within a system. They will apply key conservation concepts to real world phenomena like rollercoasters and collisions in order to model transformations and transfers of energy and momentum.	Are the interactions we see the only ones that can be explained? How is interactions occur at the smallest scales? Students will investigate the electric and magnetic behavior of materials. They will apply concepts previously learned to explore how charges interact with electric and magnetic fields. The concepts will be applied to relevant technology such as wireless charging devices.	How does technology use complex interactions to function? How is information shared at great distances? Students investigate waves and their use in modern technology. Students will study how different types of waves interact and transmit energy as well as information. The ideas students explore in this unit are fundamental to understanding how communication technology works and develops in our modern day.		
Learning Targets	Learning Targets	Learning Targets	Learning Targets	Learning Targets		
I can design and conduct experiments to observe and describe real world motion.	I can model the cause-effect relationship between forces and motion using diagrams and equations.	I can model the conservation of energy or momentum in a system using diagrams and equations.	I can use models to describe and predict the effects of electrostatic forces between distant objects.	I can describe the different types of waves, their properties and how they transmit energy and information.		
I can analyze and interpret data from an experiment and make a conclusive statement regarding what the data represents.	I can use vector algebra to model multiple forces acting on an object or system of objects.	I can define a system of interacting objects that is advantageous for solving a problem.	I can model how the field created by charged particles affect the space around them.	I can recognize when to use the wave model or particle model to describe electromagnetic radiation.		
I can model real world motion using measurements, equations, diagrams and graphs.	I can model the interactions between objects in contact as well as objects at a distance using diagrams and equations.	I can distinguish between a system in which quantities are conserved and a system in which quantities aren't.	I can explain how electricity and magnetism are related and give specific examples for how moving charges and magnets interact.	I can identify the advantages and disadvantages of different transmission and storage technologies.		



Revised Curricula Projects



- Advanced Creative Design
- American Studies I
- American Studies I Honors
- AP Calculus BC Curriculum
- AP United States History
- Art 1
- Art 2
- Art 3
- Art 4
- Art 5

- Biology
- Chemistry CP
- Chemistry Honors
- Child Growth and Development
- Chinese Grade 7
- Culinary Creations
- Culture and Cuisine
- ELL 1 C&D
- ELL 2 A&B

- ELL 3 A&B
- ELL 4 A&B
- ELL1 A&B
- ELL4 C&D
- Emerging Financial Markets
- Family and Consumer Science Grade 6
- Family and Consumer Science Grade 7
- Financial Literacy RC
- Geometry CP

Revised Curricula Projects



- German Grade 6
- Health Grade Kindergarten
- Health Grade 1
- Health Grade 2
- Health Grade 3
- Health Grade 6
- Health Grade 7
- Health Grade 8
- Health Grade 9
- Health Grade 10
- Health Grade 11
- Health Grade 12

- Life Skills Grades 4 & 5
- Mathematics Kindergarten
- Mathematics Grade 1
- Mathematics Grade 2
- Mathematics Grade 3
- Mathematics Grade 4
- Mathematics Grade 5
- Media Center/Library Adaptive Grades K-3
- Media Center/Library Grade 1
- Media Center/Library Grade 2
- Media Center/Library Grade 3
- Media Center/Library Kindergarten
- Media Center/Library Pre-K
- Music 1

- Music 2
- Music 3
- Music 4
- Music 5
- Music Cycle 6
- Music Cycle 7
- Music Cycle 8
- Music Kindergarten
- Physical Education Grade 6
- Physical Education Grade 7
- Physical Education Grade 8
- Physical Education Grade 9
- Physical Education Grade 10
- Physical Education Grade 11
- Physical Education Grade 12

Revised Curricula Projects

- Physics
- Physics Honors
- Precalculus Honors
- Preschool Curriculum
- Science Grade 6
- Science Grade 7
- Science Grade 8
- Social Studies Grade 1
- Social Studies Grade 2
- Social Studies Grade 3
- Social Studies Grade 4
- Social Studies Grade 5
- Social Studies Grade 7
- Social Studies Grade Kindergarten
- Spanish 3
- Spanish Academy A
- Spanish Academy B
- Spanish Grade 4
- Spanish Grade 5
- Spanish Language & Culture
- World History



All Things ELA & Math

Updates and Important Information to Start the School Year

With bonus content from DLI, Science, Social Studies, & World Language!

Welcome Note

WELCOME BACK! We hope you have enjoyed your summer! As we prepare for the start of the school year, we wanted to share summer updates for ELA, mathematics, and more! Below you will find brief descriptions of the work done over the summer and updated resources available on the [K-5 Learning site](#).

Arigatou
ARIGATO
Do je
Asante
Maile ilomoi
Shukriyya
Xie xie
Spasibo
Achua
THANKS
Salamat
Kamsa hannida
Dikayi
GRACIAS
Hvaha
Wnaha
Dialoh
ARIGATO
Efcharisto
MAHALO
OBRIGATO
GRAZIE
Asante

CHOKRANE
Kiuto
Dankie
KIA ORA
Gratie
ASANTE
Toda
MAAKE
Ca'm owh
Khop Khun Krab
Jijit

MERCI
DANKE
MERCIE

THANK YOU