



Elementary Curriculum Parent Workshop: Mathematics

Presented By:

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Agenda

- NYS Math Standards and Practices
- Elementary Go Math! Program
 - Updates
 - New features
- Home Connections
- Parent Access



Mathematical Practices

a set of standards that describe the reasoning skills students should develop to understand mathematics.

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.



Kindergarten

Counting and Cardinality

- Know number names and count sequence.
- Count to tell the number of objects.
- Compare numbers.

Operations and Algebraic Thinking

- Understanding addition as putting together and adding to, and understanding subtraction as taking apart and taking from.
- Understand simple patterns.

Number and Operations in Base Ten

- Work with numbers 11 - 19 to gain foundations for place value.

Measurement and Data

- Describe and compare measurable attributes.
- Classify objects and count the number of objects in each category.

Geometry

- Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).
- Analyze, compare, sort, and compose shapes.



Grade 1

Operations and Algebraic Thinking

- Represent and solve problems involving addition and subtraction.
- Understand and apply properties of operations and the relationship between addition and subtraction.
- Add and subtract within 20.
- Work with addition and subtraction equations.

Number and Operations in Base Ten

- Extend the counting sequence.
- Understand place value.
- Use place value understanding and properties of operations to add and subtract.

Measurement & Data

- Measure lengths indirectly and by iterating length units.
- Represent and interpret data.

Geometry

- Reason with shapes and their attributes.



Grade 2

Operations and Algebraic Thinking

- Represent and solve problems involving addition and subtraction.
- Add and subtract within 20.
- Work with equal groups of objects to gain foundations for multiplication.

Number & Operations in Base Ten

- Understand place value.
- Use place value understanding and properties of operations to add and subtract.

Measurement and Data

- Measure and estimate lengths in standard units.
- Relate addition and subtraction to length.
- Work with time and money.
- Represent and interpret data.

Geometry

- Reason with shapes and their attributes.



Grade 3

Operations and Algebraic Thinking

- Represent and solve problems involving multiplication and division.
- Understand properties of multiplication and the relationship between multiplication and division.
- Multiply and divide within 100.
- Solve problems involving the four operations, and identify and extend patterns in arithmetic.

Number and Operations in Base Ten

- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations - Fractions

- Develop understanding of fractions as numbers.

Measurement & Data

- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.

Geometry

- Reason with shapes and their attributes.



Grade 4

Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

Number and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations - Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

Geometry

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.



Grade 5

Operations and Algebraic Thinking

- Write and interpret numerical expressions.
- Analyze patterns and relationships.

Number and Operation in Base Ten

- Understand the place value system.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.

Number and Operations - Fractions

- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Measurement and Data

- Convert like measurement units within a given measurement system.
- Represent and interpret data.
- Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.

Geometry

- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Classify two-dimensional figures into categories based on their properties.



Assessment of Math Mastery

- Student Work
- Small group learning
- Quick-check questions in lesson structure to ensure students understand the skill being taught
- Incorporation of math concepts into project-based learning
- Waggle
- Report Card indicators
- Go Math Chapter Tests
- NWEA Growth Math
- NYS Math Assessment for Grades 3, 4, 5



Now that we know what students are learning, let's talk about HOW these standards are being met.

HMH Ed

GO
MATH!



Selection Process Timeline

Fall 2022:

- Committee reviewed strengths/shortcomings of GO Math 2015.
- Decided on a selection criteria for a new resource.
- Evaluated products and participated in product demonstrations from a variety of math curriculum companies.

Fall 2023:

- The math committee reviewed the grade level standards for K-6 to ensure the program chosen would meet our needs.

Spring 2024:

- Arrived at a consensus to move forward with NEW! GO Math.

Fall 2024-Present:

- Staff received in-person training on the new program.
- Coachly sessions per building
- Ongoing monthly feedback from teachers and the math team



Overview of Go Math

- Aligned to the NYS Standards
- Reorganized chapters
- HMH ED: Updated online platform for teachers and students
- WAGGLE: student platform that provides adaptive practice and is connected to the NWEA
- DISCOVER Tab:
 - Student Edition Workbook
 - Digital manipulatives
 - Multi Language Learner Support
 - Math on the Spot Videos
- Family Room



Chapter Reorganization

- There are more chapters than previously, with less lessons per chapter.
- Students can focus and master specific skills before moving forward with additional content.
- Additional assessments allow teachers to test student mastery and implement intervention as needed.
- Go Math! chapters in grades K-2 maintain smaller volumes with less chapters, where grades 3-5 now have combined volumes.



Let's look at how to sign in to Ed!

Students can sign into Ed through ClassLink

User Name: _____@syossetschools.org



Let's look at "Discover"

HMH Ed

Dashboard Discover Assignments Scores

Chapters

LAST VIEWED

<

Chapter 5
Addition Up to 5

Chapter 6
Subtraction Within 5

Chapter 7
Count and Represent Numbers Through 8

Chapter 8
Count and Represent Numbers Through 10

>

Featured Categories

Sort By Default

Teacher Resources

Student Edition

Student Resources

Family Resources

Grab and Go Resources

Digital Manipulatives

Multilingual Learner Support

Vocabulary



Let's look at "Digital Manipulatives"

Digital Manipulatives

All resources (48)

TITLE



[Base-Ten Blocks: Compare](#)



[Base-Ten Blocks: Add](#)



[Base-Ten Blocks: Multiply](#)



[Number Line: Multiply](#)



[Number Chart: Multiplication Chart](#)



[Counters: Divide](#)



[Number Line: Subtract](#)



[Base-Ten Blocks: Divide](#)



[Geometry: Area and Perimeter](#)



[Counters: Count](#)



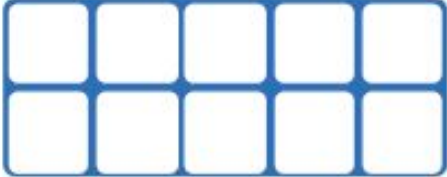
[Number Chart: Hundred Chart](#)

Count

Counters Ten Frames ? Print Speaker

Use Ten Frames to Show Numbers

− 1 +



Check Answer

Eraser



Let's look at the Family Room

The screenshot shows the HMH Ed Family Room interface. At the top, there is a navigation bar with links for Dashboard, Discover (highlighted in a yellow button), Assignments, and Scores. The main header area features the 'Family Room' title and the tagline 'Support your child's learning with bite-size tips and videos.' Below this, a 'Browse By' sidebar on the left lists categories: Home, Getting Started, Program Support, Shareables, and My Favorites. The main content area is titled 'New For You (35)' and contains three featured items: 'Math 180 | Grade 3-12' with a guided tour link, 'Read 180 | Grade 3-12' with a guided tour link, and 'Into Science | Grade K-8' with a link to five tips for making science happen at home. A search bar is located in the top right of the content area. A red box highlights a user menu in the top right corner, which includes options for Español, Family Room, Linked Accounts, and Log Out. The HMH Ed logo is in the top left, and a large red 'S' logo is in the bottom right corner.

HMH Ed

Dashboard Discover Assignments Scores

Family Room™

Support your child's learning with bite-size tips and videos.

Browse By

- Home
- Getting Started
- Program Support
- Shareables
- My Favorites

Browse our pantry of bite-size tips and videos to help support your child's learning.

New For You (35)

Search

Math 180 | Grade 3-12

[Math 180 Student Application Guided Tour](#)

Read 180 | Grade 3-12

[Read 180 Student Application Guided Tour](#)

Into Science | Grade K-8

[Five Tips for Making Science Happen at Home](#)

ES

Student Workbook

Dashboard

Discover

Assignments

Scores

 Student Edition

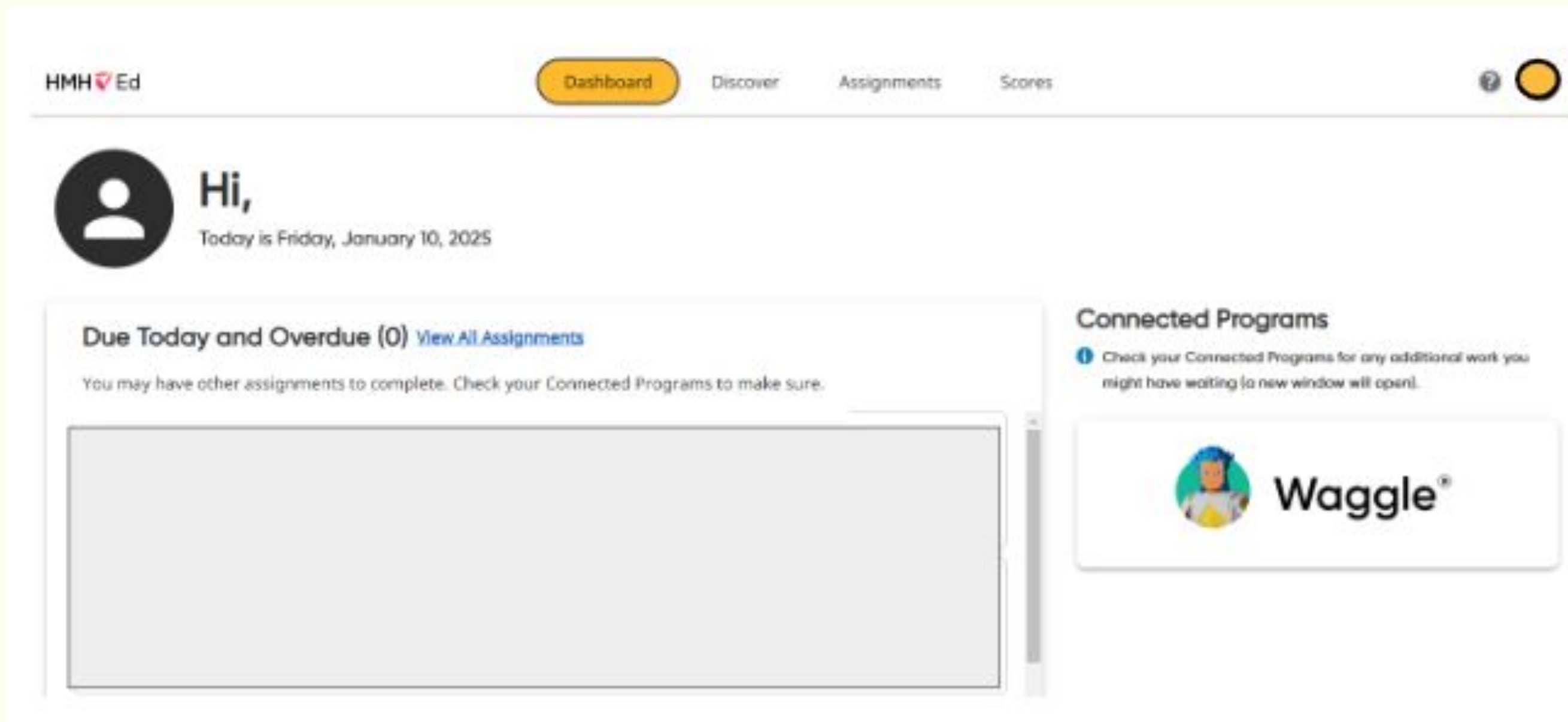
Student Edition

All resources (17)

TITLE		
 Chapter 1: Understand Place Value	 Quick View	Open
 Chapter 2: Use Place Value	 Quick View	Open
 Chapter 3: Basic Facts	 Quick View	Open
 Chapter 4: Equal Groups	 Quick View	Open
 Chapter 5: 2-Digit Addition	 Quick View	Open



Let's look at Waggle!



The screenshot shows the HMH Waggle student dashboard. At the top, the HMH Ed logo is on the left, and navigation buttons for Dashboard, Discover, Assignments, and Scores are in the center. A user profile icon and the text "Hi, Today is Friday, January 10, 2025" are on the right. Below the navigation bar, there are two main sections. The left section is titled "Due Today and Overdue (0)" with a link to "View All Assignments". It contains a message: "You may have other assignments to complete. Check your Connected Programs to make sure." Below this message is a large, empty rectangular box. The right section is titled "Connected Programs" and contains a message: "Check your Connected Programs for any additional work you might have waiting (a new window will open)." Below this message is a card for "Waggle" featuring a cartoon character icon and the word "Waggle" with a registered trademark symbol.

<https://www.hmh-waggle-student.com/home-math-5>



Connected Programs

i Check your Connected Programs for any additional work you might have waiting (a new window will open).



Waggle®

Waggle

Welcome,



Select Your Class

24-25 000 1 HR Gr K

Demo

Waggle

Welcome

1+2

Score 1100

1/5







How to Best Help Your Child

- Ask your child to show you the Ed platform!
- Utilize the **Review/Practice Test** at the end of each chapter to check for understanding before exams.
- Remind your child about the **Digital Manipulatives** when they are doing homework, if needed.
- Check the **Family Room** for additional helpful tips and resources!
- If you need to access your child's account from home, use this video to guide you in signing in:
- Reach out to your child's teacher for any questions that may arise!



If you need help...

Reach out to your Library Media Specialist:

- Baylis - Ms. Febraro email: jfebraro@syossetschools.org
- Berry Hill - Ms. Ortlieb email: lortlieb@syossetschools.org
- Robbins Lane - Ms. Sullivan email: tsullivan@syossetschools.org
- South Grove - Ms. Tsunis-Eckstrum email: vtsuniseck@syossetschools.org
- Village - Ms. Jerabek email: bjerabek@syossetschools.org
- Walt Whitman - Ms. Falck email: mfalck@syossetschools.org
- Willits - Mr. Ras email: aras@syossetschools.org

Or reach out to Colleen Vereline, the Elementary Tech Support Specialist

email: cvereline@syossetschools.org



Questions?

Your paragraph text

