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Dear Glen Rock Families,

It has been an absolute pleasure getting to know you and your students this year. I know for many of you, this was a challenging school year. I would like to take this opportunity to address the importance of a student's mathematical mindset.

We hear it from students every day: "I'm not a math person," or "I'm bad at this." Ultimately, though, everyone has the ability to think mathematically; it just looks different for each of us. Jo Boaler, in her book *Mathematical Mindsets: Unleashing Students' Potential through Creative Math, Inspiring Messages and Innovative Teaching*, writes that, "A lot of scientific evidence suggests that the difference between those who succeed and those who don't is not the brains they were born with, but their approach to life, the messages they receive about their potential, and the opportunities they have to learn." One of my missions is to promote a healthy, positive math identity for ALL students.

Jo Boaler discusses steps families can take to foster a passion and enthusiasm for mathematics in [Advice for Parents](#).

Attached to this letter, I've included some FREE summer resources for students entering Pre-Algebra through Algebra II. There are only four courses at Glen Rock HS that have formal summer assignments, which are located here: [Advanced Pre-Calculus](#), [Honors Algebra III/Differential Calculus](#), [Honors Calculus](#), [AP Calculus](#), and [AP Statistics](#). Students enrolled in these courses for the '22-23 school year have been notified via Schoology. It is also recommended that students enrolled in Algebra I or higher have a graphing calculator, please see this [letter](#) for more information regarding graphing calculators.

I appreciate your time and consideration.

Sincerely,

Ms. Michelle Della Fortuna

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FREE summer resources

For students entering into Grade 7 (Pre-Algebra)		
Resource	Description	Link
Prerequisite Skills Practice and Topic List	This packet touches on essential prerequisite skills for a successful start to Pre Algebra. Students are encouraged to complete the practice problems and read over the list. This can be used with either IXL or Khan Academy videos.	Skills to Review for Entering 7th Grade Mathematics Grade 7 Pre Algebra Prerequisite Topics (Practice Packet)
IXL Learning	This was purchased by the district to support mathematics instruction for the '21-22 school year. IXL is personalized learning. With a comprehensive K-12 curriculum, individualized guidance, and real-time analytics, IXL meets the unique needs of each learner. Students should log in with their issued username and password. Once logged on students should go to "learning" then "7th grade."	Glen Rock Unique Log In Link
Khan Academy	Khan Academy's mission is to provide a free, world-class education to anyone, anywhere. Students can sign up for a FREE count to have access to full lesson tutorials, practice sets, and assessments. Students can take the Course Challenge to level up on what they already know.	"Get Ready for the 7th Grade"
How to Learn Math: For Students	How to Learn Math is a free self-paced class for learners of all levels of mathematics. It combines important information on the brain with new evidence on the best ways to approach math effectively. Many people have had negative experiences with math. This class will give learners of math the information to become powerful math learners, correct any misconceptions about what math is, and will teach them about their own potential to succeed.	Access to Course
Online Math Games	Play online math games. The following websites have free math games that practice a variety of skills.	Grade 6 Grade 7
Free Worksheets	Students have access to free workshops by topic. All worksheets have answer keys attached.	Free Worksheets: Pre-Algebra

FREE summer resources

For students entering into Grade 8/Algebra I		
Resource	Description	Link
IXL Learning	This was purchased by the district to support mathematics instruction for the '21-22 school year. IXL is personalized learning. With a comprehensive K-12 curriculum, individualized guidance, and real-time analytics, IXL meets the unique needs of each learner. Students should log in with their issued username and password. Once logged on students should go to "learning" then "Algebra I."	Glen Rock Unique Log In Link
Khan Academy	Khan Academy's mission is to provide a free, world-class education to anyone, anywhere. Students can sign up for a FREE count to have access to full lesson tutorials, practice sets, and assessments. Students can take the Course Challenge to level up on what they already know.	"Get Ready for the Algebra I"
How to Learn Math: For Students	How to Learn Math is a free self-paced class for learners of all levels of mathematics. It combines important information on the brain with new evidence on the best ways to approach math effectively. Many people have had negative experiences with math. This class will give learners of math the information to become powerful math learners, correct any misconceptions about what math is, and will teach them about their own potential to succeed.	Access to Course
Free Worksheets	Students have access to free workshops by topic. All worksheets have answer keys attached.	Free Worksheets: Algebra I
Math Challenges for Families	Helping families enjoy mathematics outside school through a series of fun and engaging, high-quality challenges. Figure This! demonstrates challenging middle school mathematics and emphasizes the importance of high-quality math education for all students. Funding for the project was provided by the National Science Foundation (NSF) and the U.S. Department of Education.	Figure This! Math Challenges for Families
MathPickle	MathPickle.com is a free online resource of original mathematical puzzles, games and unsolved problems.	Organized by Grade MathPickle
Math Walks	This is one teacher's take on "Public Problem Solving" by using chalk to display math problems on the sidewalk.	Math Walks

FREE summer resources

For students entering into Geometry		
Resource	Description	Link
Prerequisite Topics Document	This document contains a list of prerequisite skills. Each skill has video tutorials and practice worksheets with solutions. Additionally, there are overview packets with solutions.	Geometry Prerequisite Topics
IXL Learning	This was purchased by the district to support mathematics instruction for the '21-22 school year. IXL is personalized learning. With a comprehensive K-12 curriculum, individualized guidance, and real-time analytics, IXL meets the unique needs of each learner. Students should log in with their issued username and password. Once logged on students should go to "learning" then "Geometry." If students need a log in, please contact dellafortunam@glenrocknj.org .	Glen Rock Unique Log In Link
Khan Academy	Khan Academy's mission is to provide a free, world-class education to anyone, anywhere. Students can sign up for a FREE count to have access to full lesson tutorials, practice sets, and assessments. Students can take the Course Challenge to level up on what they already know.	"Get Ready for the Geometry"
Free Worksheets	Students have access to free workshops by topic. All worksheets have answer keys attached.	Free Worksheets: Geometry

FREE summer resources

For students entering into Algebra II		
Resource	Description	Link
Practice Packet with Instructional Video Links	This packet touches on essential prerequisite skills for a successful start to Algebra II. Students are encouraged to watch the videos, then complete the practice problems.	Algebra II Prerequisite Topics
IXL Learning	This was purchased by the district to support mathematics instruction for the '21-22 school year. IXL is personalized learning. With a comprehensive K-12 curriculum, individualized guidance, and real-time analytics, IXL meets the unique needs of each learner. Students should log in with their issued username and password. Once logged on students should go to "learning" then "Algebra II." If students need a log in, please contact dellafortunam@glenrocknj.org .	Glen Rock Unique Log In Link
Khan Academy	Khan Academy's mission is to provide a free, world-class education to anyone, anywhere. Students can sign up for a FREE count to have access to full lesson tutorials, practice sets, and assessments. Students can take the Course Challenge to level up on what they already know.	"Get Ready for the Algebra II"
Free Worksheets	Students have access to free workshops by topic. All worksheets have answer keys attached.	Free Worksheets: Algebra 2