

Dear Upcoming 8th grade Pre-Algebra students,

This year, you will find that your summer work is different than it has been in years past. This summer you will be taking advantage of a program at [khanacademy.org](https://www.khanacademy.org) entitled, "Getting Ready for 8th Grade." This program covers all of the topics that students should be comfortable with in order to succeed in Pre-Algebra, which is the 8th grade math class.

Some of the topics covered will be familiar to you, and some are new to you. However, the advantage to providing your summer work in this format means that you do not have to have immediate recall of topics learned, or even that topics you have not learned will be out of your reach. The videos in the program teach all the necessary information in an easy, understandable way and provide ample opportunities for practice and immediate feedback. Also, because you can watch a video or complete an exercise as many times as you like, if you're struggling with a concept, and mom and dad aren't sure how to do it either, THEY can watch the videos to learn and then be able to help you. *Be aware that I have not included ALL of the topics in this program, but have chosen what I think are the most relevant topics for you to review and learn.*

To access the material, you will need to sign up for a [khanacademy.org](https://www.khanacademy.org) account and enter my class code. A [quarter page sheet of instructions](#) are attached to this page that take you through the necessary steps. Creating your account using your St. Rose Google account login is your best option. ("Sign up with Google.") Once the account has been created, you will be able to see the work you need to do under the "Assignments" tab on the left hand side of your class page.

Attached to this packet, you will also find the check-off spreadsheet that I will be collecting the first full day of school. While *I will be able to monitor your progress throughout the summer* from my [khanacademy Teacher Dashboard](#), I still want you to *turn in a physical assignment*. You should record your final scores on the exercises and have your parents initial that each item was completed (all the yellow boxes.)

If you have any difficulty accessing the [khanacademy](https://www.khanacademy.org) material, I will be at school frequently throughout the summer, and I will check my email daily. You can send me a message at kquinby@saintrose.org or leave a message at extension 1052, and I will get back to you as soon as I can.

I know that you would just like to enjoy your summer without having to worry about school work, but your parents and I want you to begin your 8th grade year feeling confident of your abilities. The videos are short and the exercises are, too. If you commit to completing a lesson every time you sit down to do math, you can finish in 16 days. Then, you will begin the 8th grade with a firm math foundation, which is a win for all of us.

Have a great summer, and God bless!

Mrs. Quinby

8th Code

8MA7TFAP

Teacher: Write your class code in the forms below.



How to join your teacher's Khan Academy class

- 1 Go to khanacademy.org/join
- 2 Enter your class code and press "Add".
Class code: 8MA7TFAP
- 3 If you don't already have an account, press "Create a new account". Enter your date of birth, then sign up using Google, your school email, or by creating a username.
- 4 Enter your grade and course. Now you're ready to start learning!



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Unit 1 - Get ready for numbers and operations

Lesson 1 - Converting fractions to decimals

	Item to complete	Your Score	Out of	Parent initials
Rewriting decimals as fractions	Video			
Write decimals as fractions	Exercise	<input type="text"/>	7	
Fraction to decimal with rounding	Video			
Converting fractions to decimals	Exercise	<input type="text"/>	4	

Lesson 2 - Exponents

	Item to complete	Your Score	Out of	Parent initials
Intro to exponents	Video			
Ther zeroth power	Video			
Meaning of exponents	Exercise	<input type="text"/>	4	

Lesson 3 - Evaluating exponent expressions

	Item to complete	Your Score	Out of	Parent initials
Evaluating expressions with variables	Video			
Variable expressions with exponents	Exercise	<input type="text"/>	4	

Lesson 4 - Order of operations

	Item to complete	Your Score	Out of	Parent initials
Order of operations examples: exponents	Video			
Order of operations	Exercise	<input type="text"/>	4	
Order of operations example	Video			
Worked example: Order of operations (PEMDAS)	Video			
Order of operations example	Video			

Lesson 5 - Powers of 10

	Item to complete	Your Score	Out of	Parent initials
Introduction to powers of 10	Video			
Using exponents with powers of 10	Video			
Powers of 10	Exercise	<input type="text"/>	7	

Lesson 6 - Multiplying and dividing with powers of 10

	Item to complete	Your Score	Out of	Parent initials
Multiplying and dividing by powers of 10	Video			
Exponents and powers of 10	Video			
Multiply and divide by powers of 10	Exercise	<input type="text"/>	7	

Lesson 7 - Estimating with multiplying and dividing decimals

	Item to complete	Your Score	Out of	Parent initials
Estimating decimal multiplication	Video		4	
Estimating with multiplying decimals	Exercise	<input type="text"/>		
Estimating decimal division	Video			

Unit 2 - Get ready for solving equations and systems of equations

Lesson 1 - Algebraic equations basics

	Item to complete	Your Score	Out of	Parent initials
Testing solutions to equations	Video		7	
Testing solutions to equations	Exercise	<input type="text"/>		

Lesson 2 - One-step addition and subtraction equations

	Item to complete	Your Score	Out of	Parent initials
One-step addition and subtraction equations	Video		7	
One-step addition equation	Video			
One-step addition and subtraction equations	Exercise	<input type="text"/>		

Lesson 3 - One-step multiplication and division equations

	Item to complete	Your Score	Out of	Parent initials
One-step division equations	Video		7	
One-step multiplication equations	Video			
One-step multiplication and division equations	Exercise	<input type="text"/>		

Lesson 4 - Combining like terms

	Item to complete	Your Score	Out of	Parent initials
Intro to combining like terms	Video		7	
Combining like terms with negative coefficients	Video			
Combining like terms with negative coefficients	Exercise	<input type="text"/>		
Combining like terms with rational coefficients	Video			
Combining like terms with rational coefficients	Exercise	<input type="text"/>	4	

Lesson 5 - The distributive property and equivalent expressions

	Item to complete	Your Score	Out of	Parent initials
The distributive property with variables	Video		4	
Factoring with the distributive property	Video			
Distributive property with variables (negative numbers)	Exercise	<input type="text"/>		
Combining like terms with negative coefficients & distribution	Video			
Combining like terms with negative coefficients & distribution	Exercise	<input type="text"/>	4	

Lesson 6 - Two-step equations intro

	Item to complete	Your Score	Out of	Parent initials
Same thing to both sides of equations	Video			
Intro to two-step equations	Video			
Two-step equations	Exercise		7	

Unit 4: Get ready for geometry

Lesson 1 - Coordinate plane

	Item to complete	Your Score	Out of	Parent initials
Coordinate plane parts review	Article			
Graphing coordinates review	Article			
Coordinate plane word problem examples	Video			
Distance between points: vertical or horizontal	Exercise		7	
Coordinate plane problems in all four quadrants	Exercise		7	

Lesson 2 - Polygons on the coordinate plane

	Item to complete	Your Score	Out of	Parent initials
Drawing a quadrilateral on the coordinate plane example	Video			
Drawing polygons with coordinates	Exercise		4	
Area of a parallelogram on the coordinate plane	Video			
Area and perimeter on the coordinate plane	Exercise		4	

Lesson 3 - Missing angle problems

	Item to complete	Your Score	Out of	Parent initials
Find measure of vertical angles	Video			
Finding missing angles	Exercise		7	
Finding angle measures between intersecting lines	Exercise		7	
Equation practice with complementary angles	Video			
Equation practice with supplementary angles	Video			
Equation practice with vertical angles	Video			
Create equations to solve for missing angles	Exercise		7	

YOU ARE DONE!!!

