Dear Upcoming Algebra 1 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 entitled, "Getting Ready for Algebra 1." This program covers all of the topics that students should be comfortable with in order to succeed in Algebra.

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 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, quizzes, and unit tests, and have your parents initial that each item was completed (all the yellow boxes.)

If you have any difficulty accessing the khanacademy material, I will be at school frequently throughout the summer, and I will check my email daily. You can send me a message at <a href="mailto:kquinby@saintrose.org">kquinby@saintrose.org</a> or leave a message at extension 1052, and I will get back to you as soon as I can.

I know you would like to enjoy your summer without thinking about school, but please do not procrastinate doing this work. This may look like a lot, but the videos are short and the exercises, quizzes, and tests are, too. You should be able to complete everything in approximately 3 30-minutes sessions per week. Then, you will begin the 8th grade with a firm Algebra 1 foundation, which will allow us to move through the Algebra 1 material in a thorough and timely manner, setting you up well for your high school mathematics classes..

Have a great summer, and God bless! Mrs. Quinby

NAME			

## Unit 1 - Get ready for equations and inequalities

Lesson 1 - Algebraic equation basics				
	Item to complete	Your Score	Out of	Parent initials
Variables, expressions, & equations	Video			
Testing solutions to equations	Video	4	•	
Testing solutions to equations	Exercise		7	
Lesson 2 - One-step addition and subtractions equations				
	Item to complete	Your Score	Out of	Parent initials
One-step addition and subtraction equaqtions	Video			
One-step addition equations	Video		_	
One-step addition and subtraction equations	Exercise		7	
Lesson 3 - One-step multiplication and division equation				
	Item to complete	Your Score	Out of	Parent initials
One-step division equations	Video			
One-step multiplication equations	Video			
One-step multiplication and division equations	Exercise		7	
Lesson 4 - Finding mistakes in one-step equations				
	Item to complete	Your Score	Out of	Parent initials
Finding mistakes in one-step equations	Video		1	
Find the mistake in one-step equations	Exercise	<u> </u>	4	
01117.4	Quiz		5	
QUIZ 1	Quiz	,	] 3	
Lesson 5 - Intro to inequalities with variables				
	Item to complete	Your Score	Out of	Parent initials
Plotting inequalities	Video			
Plotting an inequality example	Video	¥	•	
Inequality from graph	Exercise		4	
Plotting inequalities	Exercise		4	
Lesson 6 - Testing solutions to inequalities				
	Item to complete	Your Score	Out of	Parent initials
Testing solutions to inequalities	Video			
Testing solutions to inequalities	Exercise		1 4	

QUIZ 2	Quiz		5	
Lesson 7 - Combining like terms				
	Item to complete	Your Score	Out of	Parent initials
Intro to combining like terms	Video			
Combining like terms with negative coefficients	Video			
Combining like terms with negative coefficients	Exercise		7	
Combining like terms with rational coefficients	Video			
Combining like terms with rational coefficients	Exercise		4	
Lesson 8 - The distributive property and equivalent expressi	ons			
	Item to complete	Your Score	Out of	Parent initials
The distributive property with variables	Video			
Factoring with the distributive property	Video		3	
Distributive property with variables (negative numbers)	Exercise		4	
Combining like terms with negative coefficients and distribution	Video	A:		
Combining like terms with negative coefficients and distribution	Exercise		4	
Equivalent expressions: negative numbers & distribution	Video			
Equivalent expressions: negative numbers & distribution	Exercise		7	
QUIZ 3	Quiz		7	
Lesson 9 - Two-step equations				
	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 intuition	Video			
Worked example: two step equatios	Video		1	
Two-step equations	Exercise		7	
Lesson 10 - Finding mistakes in two-step equations				
	Item to complete	Your Score	Out of	Parent initials
Find the mistake : two-step equations	Video		E	
Find the mistake : two-step equations	Exercise		4	
Lesson 11 - One- and two-step inequalities				
	Item to complete	Your Score	Out of	Parent initials
One-step inequalites examples	Video			
One-step inequalites: -5c<=15	Video			
One-sten inequalities	Evercise		7	

Two-step inequalities	Video			
Two-step inequalities	Exercise		7	
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		2	2	a
QUIZ 4	Quiz		5	
Lesson 12 - Equations with variables on both sides				
	Item to complete	Your Score	Out of	Parent initials
Intro to equations with variables on both sides	Video			
Equations with variables on both sides	Video			
Equations with variables on both sides	Exercise		4	
Lesson 13 - Equations with parentheses				
	Item to complete	Your Score	Out of	Parent initials
Equations with parentheses	Video	-		
Equations with parentheses	Exercise		4	4
				-
QUIZ 5	Quiz		5	
UNIT TEST	Test		12	
Unit 2: Get ready fo	or working with I	ınite		
Olit 2. Oct roady is	n norking man c			
Lesson 1 - Intro to ratios				
	Item to complete	Your Score	Out of	Parent initials
Intro to ratios	Video			5
Basic ratios	Video			
Part:whole ratios	Video			
Basic ratios	Exercise		7	
Lesson 2 - Equivalent ratios	D1	V	0.4.4	Danama initiala
En Calcularation	Item to complete	Your Score	Out of	Parent initials
Equivalent ratios	Video			
Equivalent ratios: recipe	Video - ·			
Equivalent ratios	Exercise		4	
Equivalent ratios word problems	Video			
Equivalent ratios with equal groups	Exercise		4	
Equivalent ratios word problems	Exercise		4	
Understanding equivalent ratios	Video		,	
Equivalent ratios in the real world	Exercise		4	
Understand equivalent ratios in the real world	Exercise		4	

Quiz 1			5			
Lesson 3 - Ratio application			_			
	Item to complete	Your Score	Out of	Parent initials		
Ratios on coordinate plane	Video					
Ratios on coordinate plane	Exercise		4			
Ratios and measurement	Video					
Ratios and units of measurement	Exercise		4			
Part to whole ratio word problems	Video	r				
Part-part-whole ratio word problems	Exercise		4			
QUIZ 2	Quiz		5			
Lesson 4 - Intro to rates						
	Item to complete	Your Score	Out of	Parent initials		
Intro to rates	Video					
Solving unit rate problem	Video					
Solving unit price problem	Video					
Unit rates	Video		7			
Lesson 5 - Rate problems						
	Item to complete	Your Score	Out of	Parent initials		
Rate problems	Video	ř				
Rate problems	Exercise		4			
Rates with fractions	Video					
Rates with fractions	Exercise		4			
Comparing rates example	Video					
Comparing rates	Exercise		4			
QUIZ 3	Quiz		5			
UNIT TEST	Test		10			
Unit 5: Get ready for linear relationships						
Lesson 1 - Constant of proportionality	Item to complete	Your Score	Out of	Parent initials		
Introduction to proportional relationships	Video					
Identifying constant of proportionality	Video					
Constant of proportionality from graph	Video					

Constant of proportionality from graphs	Exercise		4	
Identifying the constant of proportionality from equation	Video		•	
Constant of proportionality from equation	Video			
Constant of proportionality from equations	Exercise		4	
Constant of proportionality from tables	Video			
Constant of proportionality from tables	Exercise		4	
Constant of proportionality from tables (with equations)	Video			
Constant of proportionality from tables (with equations)	Exercise		4	
QUIZ 1	Quiz		7	
Lesson 5 - Writing and solving proportions				
31.7	Item to complete	Your Score	Out of	Parent initials
Worked example: Solving proportions	Video			
Solving proportions	Exercise		7	
Writing proportions example	Video			
Writing proportions example	Exercise		4	
Proportion word problem: cookies	Video			
Proportion word problem: hot dogs	Video			
Proportion word problems	Exercise		4	
Unit 4: Get ready for fu	ınctions and seq	uences		
Lesson 1 - Math patterns				
	Item to complete	Your Score	Out of	Parent initials
Factors and multiples: days of the week	Video	53		
Patterns with numbers	Exercise		4	
Math patterns: table	Video			
Math patterns: toothpicks	Video	*/		
Patterns with shapes	Exercise		4	
Lesson 4 - Linear models				
	Item to complete	Your Score	Out of	Parent initials
Linear equations word problems	Video			
Modeling with linear equations: snow	Video			
Linear equations word problems	Exercise		4	

## YOU ARE DONE!!!



## 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: PWX3Z4GN
- 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.
- Enter your grade and course. Now you're ready to start learning!