



8th Grade Pre-Algebra

Khan Academy - Get Ready for 8th Grade

Students,

Your summer work this year will be watching videos and taking mini-assessments at Khan Academy. I have assigned work at khanacademy.org for you to complete throughout the summer. Attached to this letter, you will find a printed list of assignments. The yellow spaces are for recording scores and parent initials.

Follow these instructions to access your assignments:

1. Go to khanacademy.org/join
 2. Enter this class code: **5FQUFGZK**
 3. Click “Create a new account”
 4. Enter your birthdate
 5. If you remember your school login and password, “Sign up using Google,” and enter the requested information. (Go to Step 7).
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1. If you do not remember your school login or password, “Sign up by creating a username,” and enter the requested information. If you use this option, I insist that you create a username that allows me to know who is completing the work. Also, **WRITE THE NEW ACCOUNT INFORMATION DOWN** so that if you go somewhere other than home during the summer and want to complete some work there, you have what you need.
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1. Click “Continue” and your assignment page will come up.

UNDER NO CIRCUMSTANCES are you to create a second account at any point this summer. If you forget your login information, email me at kquinby@saintrose.org and I will reset your password and send that and your username to you.

Remember, I will be able to see your progress throughout the summer. Please do not wait until the last minute to begin these assignments. Make a plan for completing the work, taking into account already-scheduled time that you will be away from home. Go through the assignments in order, and have your parents initial when you have watched the videos and completed the exercises. Be sure to write the score you received on each exercise in the appropriate box on the sheet. The completed spreadsheet is due on the first full day of class and will count as your first **test** grade (I will be cross-checking the paper with the information I can see at the website on my teacher dashboard.) There will be a **quiz** over the summer work during the first week of school.

If you begin early, you will not have to fret about getting everything done. You can do this the hard/easy way (buckle down, start early, stay steady, be done and have nothing left to do for the couple of weeks before school starts), or the easy/hard way (forget about the work till the last minute, panic, spend several days at the end of your summer doing nothing but math.)

Enjoy your summer, and I will see you in August!

Mrs. Quinby

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		7	
Fraction to decimal with rounding	Video			
Converting fractions to decimals	Exercise		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		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		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		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		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		7	

Lesson 7 - Estimating with multiplying and dividing decimals

	Item to complete	Your Score	Out of	Parent initials
Estimating decimal multiplication	Video			

Estimating with multiplying decimals	Exercise	<input type="text"/>	4	<input type="text"/>
Estimating decimal division	Video			<input type="text"/>
Estimating with dividing decimals	Exercise	<input type="text"/>	7	<input type="text"/>

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			<input type="text"/>
Testing solutions to equations	Exercise	<input type="text"/>	7	<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			<input type="text"/>
One-step addition equation	Video			<input type="text"/>
One-step addition and subtraction equations	Exercise	<input type="text"/>	7	<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			<input type="text"/>
One-step multiplication equations	Video			<input type="text"/>
One-step multiplication and division equations	Exercise	<input type="text"/>	7	<input type="text"/>

Lesson 4 - Combining like terms

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

Lesson 5 - The distributive property and equivalent expressions

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

Lesson 6 - Two-step equations intro

	Item to complete	Your Score	Out of	Parent initials
Same thing to both sides of equations	Video			<input type="text"/>
Intro to two-step equations	Video			<input type="text"/>
Two-step equations	Exercise	<input type="text"/>	7	<input type="text"/>

Unit 3 - Get ready for linear equations and functions

Lesson 3 - Identifying proportional relationships

	Item to complete	Your Score	Out of	Parent initials
Intro to proportional relationships	Video			
Proportional relationships: movie tickets	Video			
Proportional relationships: bananas	Video			
Proportional relationships: spaghetti	Video			
Identifying proportional relationships	Exercise		7	
Proportional relationships	Video			
Proportional relationships	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 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!!!