

Dear Upcoming 7th graders,

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 7th Grade." This program covers all of the topics that students should be comfortable with in order to succeed in 7th grade mathematics.

Some of the topics covered will be very familiar to most of you, and some are new to you, perhaps because we did not get to them in the 6th grade. 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 we did not learn will be out of your reach. The videos in the program teach all the necessary information for completing the program 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](mailto: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 7th 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 7th grade with a firm math foundation, which is a win for all of us.

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

7<sup>th</sup> Code  
435HQUFA

Teacher: Write your class code in the forms below.



## How to join your teacher's Khan Academy class

- 1 Go to [khanacademy.org/join](https://khanacademy.org/join)
- 2 Enter your class code and press "Add".  
Class code: 435HQUFA
- 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 negative number operations**

**Lesson 1 - Introduction to negative numbers**

	Item to complete	Your Score	Out of	Parent initials
Introduction to negative numbers	Video			
Intro to negative numbers	Article			
Negative numbers on the number line	Exercise		7	
Interpreting negative numbers	Exercise		7	

**Lesson 2 - Negative symbol as opposite**

	Item to complete	Your Score	Out of	Parent initials
Negative symbol as opposite	Video			
Negative symbol as opposite	Exercise		4	
Number opposites	Video			
Number opposites	Article			
Number opposites	Exercise		7	
Number opposites review	Article			

**QUIZ 1**

Quiz			5	
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**Lesson 3 - Negative decimals and fractions on the number line**

	Item to complete	Your Score	Out of	Parent initials
Negative decimals and fractions on the number line	Video			
Negative decimals and fractions on the number line	Exercise		7	
Decimals and fractions on the number line	Video			
Negative fractions on the number line	Exercise		4	

**Lesson 4 - Absolute value**

	Item to complete	Your Score	Out of	Parent initials
Absolute value examples	Video			
Intro to absolute value	Article			
Finding absolute values	Exercise		7	
Comparing absolute values	Video			
Compare and order absolute values	Exercise		7	

**QUIZ 2**

Quiz			7	
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**Lesson 5 - Adding and Subtracting Fractions with unlike denominators**

	Item to complete	Your Score	Out of	Parent initials
Adding and subtracting fractions with unlike denominators	Video 1			

Adding and subtracting fractions with unlike denominators  
 Adding and subtracting fractions with unlike denominators  
 Subtracting fractions with unlike denominators  
 Subtracting fractions with unlike denominators  
 Subtracting fractions with unlike denominators

Video 2  
 Exercise  
 Video 1  
 Video 2  
 Exercise

7

7


**Lesson 6 - Multiplying fractions**

Multiplying fractions  
 Multiplying fractions  
 Multiplying mixed numbers  
 Multiplying mixed numbers

Item to complete  
 Video  
 Exercise  
 Video  
 Exercise

Your Score

Out of  
 7  
 4

Parent initials


**QUIZ 3**

Quiz

5

**Lesson 7 - Fraction as division**

Understanding fraction as division  
 Creating a fraction through division  
 Fractions as division

Item to complete  
 Video  
 Video  
 Exercise

Your Score

Out of  
 7

Parent initials


**Lesson 8 - Dividing Fractions**

Meaning of the reciprocal  
 Understanding division of fractions  
 Dividing fractions  
 Dividing fractions  
 Dividing fractions  
 Dividing mixed numbers  
 Dividing mixed numbers

Item to complete  
 Video  
 Video  
 Video 1  
 Video 2  
 Exercise  
 Video  
 Exercise

Your Score

Out of  
 4  
 4

Parent initials


**QUIZ 4**

Quiz

5

**UNIT TEST**

Test

13

## Unit 2 - Get ready for fractions, decimals, and percentages

### Lesson 1 - Adding and subtracting decimals word problems

	Item to complete	Your Score	Out of	Parent initials
Adding decimals word problem	Video			
Adding and subtracting decimals word problem	Video			
Adding and subtracting decimals word problem	Exercise	<input type="text"/>	4	

### Lesson 2 - Percent problems

	Item to complete	Your Score	Out of	Parent initials
Finding a percent	Video			
Percent of a whole number	Video			
Benchmark percents	Exercise	<input type="text"/>	7	
Equivalent representations of percent problems	Exercise	<input type="text"/>	4	
Finding percents	Exercise	<input type="text"/>	7	

### Lesson 3 - Percent word problems

	Item to complete	Your Score	Out of	Parent initials
Percent word problem: recycling cans	Video			
Percent word problems	Exercise	<input type="text"/>	7	

### UNIT TEST

Item to complete	Your Score	Out of	Parent initials
Test	<input type="text"/>	10	

## Unit 3: Get ready for rates and proportional relationships

### Lesson 1 - Equivalent ratios

	Item to complete	Your Score	Out of	Parent initials
Equivalent ratios	Video			
Equivalent ratios: recipe	Video			
Equivalent ratios	Exercise	<input type="text"/>	4	
Equivalent ratio word problems	Video			
Equivalent ratios with equal groups	Exercise	<input type="text"/>	4	
Equivalent ratio word problems	Exercise	<input type="text"/>	4	
Understanding equivalent ratios	Video			
Equivalent ratios in the real world	Exercise	<input type="text"/>	4	
Understanding equivalent ratios in the real world	Exercise	<input type="text"/>	4	

### QUIZ 1

Item to complete	Your Score	Out of	Parent initials
Quiz	<input type="text"/>	5	

**Lesson 2- Ratio application**

	Item to complete	Your Score	Out of	Parent initials
Ratios on a coordinate plane	Video			
Ratios on a coordinate plane	Exercise	<input type="text"/>	4	
Ratios and measurement	Video			
Ratios and units of measurement	Exercise	<input type="text"/>	4	
Part:whole ratios	Video			
Part-part-whole ratios	Exercise	<input type="text"/>	4	

**Lesson 3 - 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	Exercise	<input type="text"/>	7	
Rate problems	Video			
Rate problems	Exercise	<input type="text"/>	4	
Comparing rates example	Video			
Comparing rates	Exercise	<input type="text"/>	4	
Rate review	Article			

**QUIZ 2**

Quiz	<input type="text"/>	5	
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**Lesson 4 - Dependent and independent variables**

	Item to complete	Your Score	Out of	Parent initials
Dependent and independent variables	Video			
Independent vs. dependent variables	Exercise	<input type="text"/>	4	
Dependent and independent variables: graphing	Video			
Tables from equations with 2 variables	Exercise	<input type="text"/>	4	
Match equations to coordinates	Exercise	<input type="text"/>	4	
Dependent and independent variables review	Article			

**QUIZ 3**

Quiz	<input type="text"/>	5	
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**Lesson 5 - Analyze relationships between variables**

	Item to complete	Your Score	Out of	Parent initials
Writing equations for relationships between quantities	Video			
Relationships between quantities	Exercise	<input type="text"/>	4	
Analyzing relationships between variables	Video			
Analyze relationships between variables	Exercise	<input type="text"/>	4	

**UNIT TEST**

Test

13

**Unit 4: Get ready for expressions, equations, and inequalities**

**Lesson 1 - Distributive property with variables**

	Item to complete	Your Score	Out of	Parent initials
Intro to combining like terms	Video			
Distributive property over addition	Video			
Distributive property over subtraction	Video			
Distributive property with variables	Video			
Distributive property with variables	Exercise	<input type="text"/>	4	
Create equivalent expressions by factoring	Exercise	<input type="text"/>	4	
Factor with distributive property (variables)	Exercise	<input type="text"/>	4	

**Lesson 2 - Combining like terms**

	Item to complete	Your Score	Out of	Parent initials
Combining like terms	Video			
Combining like terms example	Video			
Combining like terms	Exercise	<input type="text"/>	4	

**Lesson 3 - Equivalent expressions**

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

**QUIZ 1**

	Item to complete	Your Score	Out of	Parent initials
	Quiz	<input type="text"/>	5	

**Lesson 4: One-step addition and subtraction equations**

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

**Lesson 5: One-step multiplication and division equations**

	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	Article			
One-step multiplication and division equations	Exercise	<input type="text"/>	7	

**Lesson 6: Finding mistakes in one-step equations**

	Item to complete	Your Score	Out of	Parent initials
Finding mistakes in one-step equations	Video			
Finding mistakes in one-step equations	Article			
Find the mistake in one-step equations	Exercise	<input type="text"/>	4	

**Lesson 7: One-step equation word problems**

	Item to complete	Your Score	Out of	Parent initials
Modeling with one-step equations	Video			
Translate one-step equations and solve	Exercise	<input type="text"/>	4	
Model with one-step equations	Exercise	<input type="text"/>	4	
Modeling with one-step equations	Exercise	<input type="text"/>	4	

**QUIZ 2**

Quiz	<input type="text"/>	5	
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**Lesson 8: Intro to inequalities with variables**

	Item to complete	Your Score	Out of	Parent initials
Testing solutions to inequalities	Video			
Testing solutions to inequalities (basic)	Exercise	<input type="text"/>	4	
Inequalities word problems	Video			
Inequalities word problems	Exercise	<input type="text"/>	4	

**QUIZ 3**

Quiz	<input type="text"/>	5	
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**UNIT TEST**

Test	<input type="text"/>	11	
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**Unit 5: Get ready for geometry**

**Lesson 1: Decomposing angles**

	Item to complete	Your Score	Out of	Parent initials
Decomposing an angle	Video			
Decomposing angles	Video			
Decompose angles	Exercise	<input type="text"/>	7	

**Lesson 2: Area of parallelograms and triangles**

	Item to complete	Your Score	Out of	Parent initials
Area of a parallelogram	Video			
Area of parallelograms	Article			
Area of parallelograms	Exercise	<input type="text"/>	4	
Area of a triangle	Video			
Finding area of triangles	Video			



Area of triangles  
Area of triangles

Article  
Exercise

7


**Lesson 3: Area of composite figures**

Item to complete	Your Score	Out of	Parent initials
Finding area by rearranging parts	Video		<input type="text"/>
Area of composite shapes	Video		<input type="text"/>
Area of a quadrilateral with 2 parallel sides	Video		<input type="text"/>
Decompose area with triangles	Exercise	4	<input type="text"/>

**QUIZ 1**

Quiz	<input type="text"/>	5	<input type="text"/>
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**Lesson 4: Volume with fractions**

Item to complete	Your Score	Out of	Parent initials
Volume of a rectangular prism: fractional dimensions	Video		<input type="text"/>
Volume by multiplying area of base times height	Exercise	4	<input type="text"/>
Volume with fractions	Exercise	4	<input type="text"/>
How volume changes from changing dimensions	Video		<input type="text"/>

**Lesson 5: Nets of 3D figures**

Item to complete	Your Score	Out of	Parent initials
Intro to nets of polyhedra	Video		<input type="text"/>
Nets of polyhedra	Exercise	4	<input type="text"/>
Surface area using a net: triangular prism	Video		<input type="text"/>
Surface area using a net: rectangular prism	Video		<input type="text"/>
Surface area of a box (cuboid)	Video		<input type="text"/>
Surface area of a box using nets	Video		<input type="text"/>
Surface area using nets	Exercise	4	<input type="text"/>

**Lesson 6: Surface area**

Item to complete	Your Score	Out of	Parent initials
Expressions to find surface area	Exercise	4	<input type="text"/>
Surface area	Exercise	4	<input type="text"/>
Surface area vs. volume	Article		<input type="text"/>

**QUIZ 2**

Quiz	<input type="text"/>	5	<input type="text"/>
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**UNIT TEST**

Test	<input type="text"/>	10	<input type="text"/>
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## Unit 6: Get ready for statistics and probability

### Lesson 1: Statistical questions

	Item to complete	Your Score	Out of	Parent initials
Statistical questions	Video			
Statistical questions	Exercise		7	

### Lesson 2: Shape of data distributions

	Item to complete	Your Score	Out of	Parent initials
Shapes of distributions	Video			
Shapes of distributions	Exercise		4	
Clusters, gaps, peaks, and outliers	Video			
Clusters, gaps, and peaks in data distributions	Exercise		7	
<b>UNIT TEST</b>	Test		10	

**YOU ARE DONE!!!**