

8th Grade Algebra

Khan Academy - Get Ready for Algebra 1

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: TV4YACT7
- 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).
- 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.
- 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 equations and inequalities

Office 1 - Get ready for ea	quations and in	lequalities		
Lesson 1 - Algebraic equation basics				
	Item to complete	Your Score	Out of	Parent initials
Variables, expressions, & equations	Video			
Testing solutions to equations	Video			
Testing solutions to equations	Exercise		7	
Lesson 2 - One-step addition and subtractions equation	ons			
	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	Exercise		7	
Lesson 3 - One-step multiplication and division equati	ion			
·	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	
one step manapheation and amount equations			,	
Lesson 4 - Finding mistakes in one-step equations				
	Item to complete	Your Score	Out of	Parent initials
Finding mistakes in one-step equations	Video			
Find the mistake in one-step equations	Exercise		4	
QUIZ 1	Quiz		5	
V	40.2		J	
Lesson 5 - Intro to inequalities with variables				
	Item to complete	Your Score	Out of	Parent initials
Plotting inequalities on a number line	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		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		7		
Combining like terms with rational coefficients	Exercise		4		
Combining like terms with rational coefficients	Exercise		4		
Lesson 8 - The distributive property and equivalent ex	oressions				
Lesson o - The distributive property and equivalent ex	Item to complete	Your Score	Out of	Parent initials	
The distributive property with variables	Video	Tour Score	Out of	Parent initials	
Factoring with the distributive property	Video				
	Exercise		4		
Distributive property with variables (negative numbers)	Video		4		
ining like terms with negative coefficients and distribution	Exercise		_		
ining like terms with negative coefficients and distribution	Video		4		
Equivalent expressions: negative numbers & distribution					
Equivalent expressions: negative numbers & distribution	Exercise		7		
QUIZ 3	Quiz		7		
Q012 3	Quiz		/		
Lesson 9 - Two-step equations					
Lesson 3 The step equations	Item to complete	Your Score	Out of	Parent initials	
Same thing to both sides of equations	Video	Tour Score	Out of	Tarent initials	
Intro to two-step equations	Video				
Two-step equations intuition	Video				
Worked example: two step equations	Video				
Two-step equations	Exercise		7		
Two-step equations	LACICISE		7		
Lesson 10 - Finding mistakes in two-step equations					
2055011 20 1 maning mistances in the Stop equations	Item to complete	Your Score	Out of	Parent initials	
Find the mistake : two-step	Video	Tour Score	Out of	Tarene miciais	
equations Find the mistake : two-	Exercise		4		
step equations	Excreise		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-step inequalities	Exercise		7		
Two-step inequalities	Video		•		
Two-step inequalities	Exercise		7		
QUIZ 4	Quiz		5		
Lesson 12 - Equations with variables on both sides	-		3		
	Item to complete	Your Score	Out of	Parent initials	
Intro to equations with variables on both sides	Video	1001 50016	Jul 01	. dicile illitiais	
Equations with variables on both sides	Video				
Equations with variables on both sides	Exercise		4		
Equations with variables on both sides	EXCICISE		4		

Lesson 13 - Equations with	parentheses				
		Item to complete	Your Score	Out of	Parent initials
	Equations with	Video		ı	
	parentheses Equations	Exercise		4	
	with parentheses			İ	
QUIZ 5		Quiz		5	
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UNIT TEST		Test		12	
	Unit 2: Get ready f	or working with	units		
Lesson 1 - Intro to ratios					
Lesson 1 maio to ratios		Item to complete	Your Score	Out of	Parent initials
	Intro to ratios	Video			
	Basic ratios	Video			
	Part:whole ratios	Video			
	Basic ratios	Exercise		7	
Lanca 2 Fortundant action	_				
Lesson 2 - Equivalent ratios	•	Itam to complete	Your Score	Out of	Darant initials
	Equivalent ratios	Item to complete Video	four Score	Out of	Parent initials
	Equivalent ratios: recipe				
	Equivalent ratios			4	
Fau	ivalent ratios word problems			4	
	alent ratios with equal groups			4	
	uivalent ratios word problems			4	
	derstanding equivalent ratios			4	
	valent ratios in the real world			4	
·	valent ratios in the real world			4	
onderstand equi-	valent ratios in the real world	EXCICISE		4	
Quiz 1				5	
Lesson 3 - Ratio application					
Lesson 5 - Natio application	<u>-</u>	Item to complete	Your Score	Out of	Parent initials
	Ratios on coordinate plane	•	Tour Score	Out of	Tarent initials
	Ratios on coordinate plane			4	
	Ratios and measurement			-+	
R a tio	os and units of measurement			4	
	io word problem using tables			4	
	rt-whole ratio word problems			4	
r αι ι- μ α	it whole ratio word problems	Excicise		4	
QUIZ 2		Quiz		5	
-		,		-	

Lesson 4 - Intro to rates Item to complete Your Score Out of Parent initials Video Intro to rates Solving unit rate problem Video Solving unit price problem Video Unit rates Exercise 7 Lesson 5 - Rate problems Item to complete Your Score Parent initials Out of Rate problems Video Rate problems Exercise 4 Video Rates with fractions Rates with fractions Exercise 4 Comparing rates example Video Comparing rates Exercise 4 QUIZ 3 Quiz **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 Video Introduction to proportional relationships 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 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

	item to complete	Your Score	Out of	Parent initials
Worked example: Solving proportions	Video			

Exercise Video Exercise		7				
Exercise						
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video						
Video						
Exercise		4				
Unit 4: Get ready for functions and sequences Lesson 1 - Math patterns						
m to complete	Your Score	Out of	Parent initials			
Video						
Exercise		4				
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m to complete	Your Score	Out of	Parent initials			
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Video

Video

Exercise

YOU ARE DONE!!!

Linear equations word problems

Linear equations word problems

Modeling with linear equations: snow