

# Algebra I: Summer Learning Packet




















We want to welcome you to algebra I for the 2019-2020 school year. As you enjoy some time off this summer, we also want to ensure you are exercising the math portion of your brain! Below you will find a list of topics that you must review prior to the start of the new school year. The topics are divided by weeks to help you manage your time and workload. However, if you are in need to change the dates of any of the topics you have the flexibility to complete the work in your own timeframe.

Sincerely, The Algebra I math team

## Directions:

Complete the following IXL sets by logging into your IXL account. Please be sure to login so that your teacher can see the completed work. You must get an 80% and complete at least 10 questions. If you do not get an 80% please, continue to work on problems until you reach the goal.

All topics are from Algebra I on IXL.com

<b>Week #1:</b>	<b>Completed?</b>
 <b>A.2</b> Absolute value and opposites	
<b>A.6</b> Square roots	
<b>Week #2</b>	
 <b>B.4</b> Add and subtract rational numbers	
 <b>G.1</b> Coordinate plane review	
<b>Week #3</b>	
 <b>J.2</b> Write and solve equations that represent diagrams	
 <b>J.4</b> Solve two-step linear equations	
<b>Week #4</b>	
 <b>J.5</b> Solve advanced linear equations	
 <b>J.10</b> Solve linear equations: word problems	
<b>Week #5</b>	
 <b>K.1</b> Graph inequalities	
 <b>K.5</b> Solve one-step linear inequalities: multiplication and division	
<b>Week #6</b>	
 <b>K.7</b> Graph solutions to one-step linear inequalities	
 <b>S.2</b> Find the slope of a graph	
<b>Week #7</b>	
 <b>S.3</b> Find the slope from two points	
 <b>S.5</b> Slope-intercept form: find the slope and y-intercept	
<b>Week #8</b>	
 <b>DD.1</b> Complete a function table: absolute value functions	
 <b>S.19</b> Graph a horizontal or vertical line	
<b>Week #9</b>	
 <b>U.1</b> Is $(x, y)$ a solution to the system of equations?	
 <b>U.2</b> Solve a system of equations by graphing	
<b>Week #10</b>	
 <b>U.8</b> Solve a system of equations using substitution	
 <b>KK.2</b> Mean, median, mode, and range	