

# 6th Grade Algebra - Summer Math Resources

The following are topics that would be helpful to explore over the summer. There are videos and/or practice websites that will help students understand the topics. These are not required, but a great option to help students with Algebra next year. These links are also available through the Sunrise website under Student Resources.

Topics that would be helpful to work on over the summer:

- Adding and Subtracting Negative and Positive Numbers  
<https://www.khanacademy.org/math/arithmetic/arith-review-negative-numbers/arith-review-sub-neg-intro/v/adding-and-subtracting-negative-number-examples>  
<http://www.funbrain.com/cgi-bin/nl.cgi?A1=s&A2=4>  
[http://www.sheppardsoftware.com/mathgames/integers/FS\\_Integer\\_addition.htm](http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_addition.htm)  
<https://www.ixl.com/math/grade-7/add-and-subtract-integers> (there is a daily limit)  
<https://www.mathgames.com/skill/7.65-add-and-subtract-integers>
- Multiplying and Dividing Negative and Positive Numbers  
<https://www.khanacademy.org/math/arithmetic-home/negative-numbers/mult-divide-negatives/v/multiplying-positive-and-negative-numbers>  
[http://www.sheppardsoftware.com/mathgames/integers/FS\\_Integer\\_multiplication.htm](http://www.sheppardsoftware.com/mathgames/integers/FS_Integer_multiplication.htm)  
<https://www.ixl.com/math/grade-7/multiply-and-divide-integers> (there is a daily limit)  
<http://www.thegreatmartinicompany.com/negativenumbers/negative-multiplication.html>  
<https://www.mathgames.com/skill/7.81-multiply-and-divide-integers>
- More Practice with Positive and Negative Numbers  
[https://www.quia.com/quiz/700477.html?AP\\_rand=592606560](https://www.quia.com/quiz/700477.html?AP_rand=592606560)  
[http://www.sheppardsoftware.com/mathgames/fruitshoot/FS\\_Mixed\\_Integers.htm](http://www.sheppardsoftware.com/mathgames/fruitshoot/FS_Mixed_Integers.htm)  
[http://www.sheppardsoftware.com/mathgames/integers/FS\\_CompareIntegers.htm](http://www.sheppardsoftware.com/mathgames/integers/FS_CompareIntegers.htm)
- Ratios, rates, proportions  
<https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates>  
<https://www.khanacademy.org/math/pre-algebra/pre-algebra-ratios-rates/pre-algebra-write-and-solve-proportions/v/find-an-unknown-in-a-proportion>

- Writing Linear Equations from Situations  
<https://www.khanacademy.org/math/algebra/linear-word-problems/constructing-linear-models/e/constructing-linear-functions-word-problems>  
  
<https://quizlet.com/169474879/writing-linear-equations-from-situations-flash-cards/>
- Combining Like Terms  
<https://www.khanacademy.org/math/algebra/introduction-to-algebra/alg1-manipulating-expressions/v/combining-like-terms>  
  
<https://www.saddleback.edu/faculty/lperez/algebra2go/prealgebra/variables/combLikeTerms.html>  
  
<https://www.ixl.com/math/grade-7/add-and-subtract-like-terms> (there is a daily limit)
- Solving Equations  
<https://www.youtube.com/watch?v=l3XzepN03KQ>  
  
<http://www.purplemath.com/modules/solveLin.htm>  
  
<http://www.math-play.com/soccer-math-one-step-equations-game/one-step-equations-game.html>
- Order of Operations  
<https://www.khanacademy.org/math/pre-algebra/pre-algebra-arith-prop/pre-algebra-order-of-operations/v/order-of-operations>  
  
<http://www.math-play.com/Order%20of%20Operations/Order-of-Operations.html>
- Fraction Operation  
<http://www.math-play.com/simplifying-fractions-game/simplifying-fractions-game.html>  
  
<http://www.math-play.com/adding-and-subtracting-fractions-game.html>  
  
<http://www.math-play.com/soccer-math-multiplying-fractions-game/multiplying-fractions-game.html>
- Exponents  
<https://www.mathsisfun.com/exponent.html>