

# ALGEBRA I

## LESSON

FREE!

STANDARD ALIGNED

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Equations and Their Solutions**  
COMMON CORE ALGEBRA I



**4. LESS** of time is spent on Algebra learning how to solve equations and then solving them the various progressions. No, Algebra involves saying that you really need to understand what it means for something to "solve" an equation. First, let's make sure we understand what an equation is:

**High school definition:**  
An equation is simply a statement about the equality of two expressions. In other words, anything that takes this form:  
 $\text{Expression #1} = \text{Expression #2}$

**Example #1:** Which of the following is not an equation?

(a)  $2x + 1 = 4 + 6$       (b)  $2(4x + 1)$   
(c)  $x^2 - 2x = 6$       (d)  $1 = 5 + 4$

Equations can be either true, like (a) above, or false, like (d) above, depending on whether the two expressions are equal (true) or not equal (false).

**Example #2:** Consider the equation  $2x + 3 = 10 + x$ .

(a) Why can't you determine whether this equation is true or false?

(b) If  $x = 1$ , will the equation be true? Show me your work!

(c) Show that  $x = 7$  makes the equation true. Remember to think very carefully always about your order of operations.



Teacher-guided  
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Included

# Emathinstruction Algebra 1

**Michael Seilmaier**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

## **Emathinstruction Algebra 1:**

**Learning Mathematics Successfully** Clark J Hickman, Helene J. Sherman, 2019-09-01 The goal of this book is to bring together the concept of self efficacy theory with practical how to strategies for both teachers and parents to use in heightening their students levels of self efficacy The book examines how self efficacy theory relates to the acquisition of mathematical competence The text also provides specific and practical how to strategies for both teachers and parents in applying these principles to classroom mathematics instruction and activities The self efficacy practices and applications to mathematics are also suitable for families working with learners outside the school environment Acquiring mathematical skills requires more than knowing arithmetic tables memorizing rules and knowing proofs It requires a basic belief that one is capable of obtaining this information making sense of it and applying and generalizing it in mathematical problems In addition a student must believe that obtaining these skills leads to a positive outcome whether it is perceived to be a good or passing grade comfort level in tackling mathematical problems being able to advance to the next mathematics course being able to score highly on the math section of the SAT and or be competitive for a desired job The ability of students to achieve and exceed grade level competence in mathematics is addressed through the lens of Albert Bandura s Self Efficacy Theory This theoretical position states that one will persist in mastering a behavior in this case mastering mathematical principles and skills in the face of obstacles or failures to the extent that one believes he or she has the ability to do so and that there is a desired outcome for doing so The research literature on the role of self efficacy in mathematic instruction is examined to demonstrate the validity of using this concept to increase student and parent teacher confidence in learning and applying grade appropriate math content Specific teaching methodologies will be provided that infuse self efficacy strategies for students Lastly teachers and parents are provided strategies to increase their own self efficacy when it comes to conveying mathematics principles to their child or student as well as strategies to assess their students level of self efficacy over time Teaching and learning mathematics so that students achieve success at their grade level or above can present a variety of challenges One barrier that affects learners is the belief that one is not capable of learning mathematics or not naturally talented in the field not a math person As a result learners may not believe they are capable of a positive outcome for achieving mathematics success This book is an important resource for pre service and in service teachers as well as families in applying the theory of self efficacy to support learners in becoming confident and assured in their ability to understand and apply mathematical principles and procedures Coupled with classroom ready mathematics instructional strategies the book provides readers with the background tools and strategies needed to carry content success and confidence forward to remain persistent in solving all future mathematical problems *The Math Teacher's Toolbox* Bobson Wong, Larisa Bukalov, 2020-04-09 Math teachers will find the classroom tested lessons and strategies in this book to be accessible and easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing

teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Math Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core math standards cover the underlying research required technology practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their mathematics courses Topics range from the planning of units lessons tests and homework to conducting formative assessments differentiating instruction motivating students dealing with math anxiety and culturally responsive teaching Easy to read content shows how and why math should be taught as a language and how to make connections across mathematical units Designed to reduce instructor preparation time and increase student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities for all classrooms Helps math teachers work with ELLs advanced students and students with learning differences Offers real world guidance for working with parents guardians and co teachers The Math Teacher s Toolbox Hundreds of Practical ideas to Support Your Students is an invaluable source of real world lessons strategies and techniques for general education teachers and math specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators

**Common Core Algebra I** Kirk Weiler, Garrett Matula, 2015-08-01      **Common Core Algebra I** Kirk Weiler, Garet Metula, 2015-08-01      **Big Ideas Math Algebra 1 Teaching Edition** Ron Larson, Big Ideas Learning, LLC., Laurie Boswell, 2012-03-05      Big Ideas Math Ron Larson, Laurie Boswell, Big Ideas Learning, LLC., 2016      **Algebra 1** McDougal-Littell Publishing Staff, McDougal Littell, 2007-07-31      **Algebra 1** Mary P. Dolciani, 1991-05-16      **Algebra 1**, 2003      **Algebra 1 Made Easy** MaryAnn Casey, 1912-12-20      *Algebra 1*, 2014-07-22 This student friendly all in one workbook contains a place to work through Explorations as well as extra practice worksheets a glossary and manipulatives The Student Journal is available in Spanish in both print and online      **Algebra 1** Ron Larson, Laurie Boswell, Timothy D. Kanold, Lee Stiff, 2004      Algebra 1 Instruction Manual Math-u-see, 2010      **Algebra 1** Randall Inners Charles, 2012      Algebra 1 Workbook Keith Williams, 2013-10-01 A series of 6 practice tests for the Algebra 1 Common Core Standards      Algebra 1 - New York (2019-2020 Course Workbook) Algebra Nation, 2019-08      **Algebra 1 Test Booklet** Math-u-see, 2010      **Algebra 1** Steven P. Demme, 2009      **Algebra 1, Student Edition** McGraw Hill, 2012-07-06 The only program that supports the Common Core State Standards throughout four years of high school mathematics with an unmatched depth of resources and adaptive technology that helps you differentiate instruction for every student Connects students to math content with print digital and interactive resources Prepares students to meet the rigorous Common Core Standards with aligned content and focus on Standards of

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