

Algebra 1, Module 1, Topic 1 - Translating Expressions - SOL A.1

Students learn about translating algebraic expressions that can contain ordinary numbers, variables (like x or y) and operators (like add, subtract, multiply and divide).

<http://www.emediava.org/link/loid/23377>

Algebra 1, Module 1, Topic 1 - Product of Powers - SOL A.2

Students learn that an exponent "product rule" tells us that when multiplying two powers that have the same base, you can add the exponents.

<http://www.emediava.org/link/loid/23388>

Algebra 1, Module 1, Topic 2 - Modeling Real World Situations - SOL A.1

Students will learn to model real-world situations with algebraic expressions in a variety of representations.

<http://www.emediava.org/link/loid/23379>

Algebra 1, Module 1, Topic 3 - Evaluation Expressions - SOL A.2

Students learn that in an algebraic expression, letters can stand for numbers. When we substitute a specific value for each variable, and then perform the operations, it's called evaluating the expression.

<http://www.emediava.org/link/loid/23381>

Algebra 1, Module 2, Topic 2 - Power of a Power - SOL A.2

Students learn that when one power is raised to another, we multiply exponents. This is true for all kinds of exponents, positive and negative.

<http://www.emediava.org/link/loid/23386>

Algebra 1, Module 2, Topic 3 - Power of a Product - SOL A.2

Students learn about the product of powers rule, which tells us that when you are multiplying two terms that have the same base, you can just add their exponents to find your answer.

<http://www.emediava.org/link/loid/23384>

Algebra 1, Module 2, Topic 4 - Quotient of Powers - SOL A.2

Students learn that the quotient of powers rule states that when dividing two powers with the same base, just subtract the exponents.

<http://www.emediava.org/link/loid/23390>

Algebra 1, Module 2, Topic 5 - Power of a Quotient - SOL A.2

Students learn that the power of a quotient is equal to the quotient obtained when the dividend and divisor are each raised to the indicated power separately, before the division is performed.

<http://www.emediava.org/link/loid/23423>

Algebra 1, Module 2, Topic 6 - Negative Exponents - SOL A.2

Students learn that negative exponents in the numerator get moved to the denominator and become positive exponents. Negative exponents in the denominator get moved to the numerator and become positive exponents.

<http://www.emediava.org/link/loid/23427>

Algebra 1, Module 2, Topic 7 - Zero Exponents - SOL A.2

Students learn that the zero exponent will help you simplify exponents and that any base with an exponent of zero is equal to one.

<http://www.emediava.org/link/loid/23425>

Algebra 1, Module 3, Topic 1 - Intro to Polynomials - SOL A.2

Students learn that a polynomial is the sum of one or more terms, that they are in the simplest form when they contain no like terms and that they are written in descending order.

<http://www.emediava.org/link/loid/23429>

Algebra 1, Module 3, Topic 2 - Adding and Subtracting Polynomials - SOL A.2

Students learn that in adding or subtracting polynomials, remove parentheses if any are present, and combine the like terms.

<http://www.emediava.org/link/loid/23431>

Algebra 1, Module 3, Topic 3 - Products of Binomials - SOL A.2

Students will learn what to do when you multiply a binomial times another binomial.

<http://www.emediava.org/link/loid/23543>

Algebra 1, Module 3, Topic 4 - Special Products - SOL A.2

Students will learn about special products: product of a sum, product of a difference, and product of a sum and a difference.

<http://www.emediava.org/link/loid/23541>

Algebra 1, Module 3, Topic 5 - Modeling Products of Binomials - SOL A.2

Students will learn how to multiply binomials.

<http://www.emediava.org/link/loid/23545>

Algebra 1, Module 3, Topic 6 - Products of a Binomial and a Trinomial - SOL A.2

Students will learn how to find a product by multiplying a binomial times a trinomial.

<http://www.emediava.org/link/loid/23547>

Algebra 1, Module 3, Topic 7 - Factoring Binomials - SoL A.2

Students learn that factoring a binomial means finding simpler terms that, when multiplied together, produce that binomial expression.

<http://www.emediava.org/link/loid/23549>

Algebra 1, Module 3, Topic 8 - Factoring Trinomials w/ a Leading Coefficient of 1 - SOL A.2

Students will learn the steps required for factoring a trinomial when the leading coefficient is one.

<http://www.emediava.org/link/loid/23551>

Algebra 1, Module 3, Topic 9 - Factoring Trinomials w/ Leading Coefficient Not Equal to 1 - SOL A.2

Students will learn the steps for factoring a trinomial when the leading coefficient is not one.

<http://www.emediava.org/link/loid/23553>

Algebra 1, Module 3, Topic 10-Using the Graphing Calculator to Verify Factors of Polynomials - SOL A.2

Students will learn how to use there calculator to verify factors of polynomials. The graphing calculator can be a tremendous help when attempting to multiply or factor algebraic expressions.

<http://www.emediava.org/link/loid/23555>

Algebra 1, Module 3, Topic 11 - Dividing Polynomials - SOL A.2

Students learn how to divide polynomials. There are two cases for dividing polynomials: either the "division" is really just a simplification and you are reducing a fraction, or long polynomial division.

<http://www.emediava.org/link/loid/23578>

Algebra 1, Module 4, Topic 1 - Simplifying Square Roots of Whole Numbers - SOL A.3

Students learn the basics of simplifying square roots, or radicals, by factoring the whole number.

<http://www.emediava.org/link/loid/23559>

Algebra 1, Module 4, Topic 1 - Simplifying Square Roots of Whole Numbers - SOL A.3

Students will learn that to simplify a square root make the number inside the square root as small as possible (but still a whole number).

<http://www.emediava.org/link/loid/23580>

Algebra 1, Module 5, Topic 1 - Solving Literal Equations - SOL A.4

Students learn that equations with several variables are called literal equations.

<http://www.emediava.org/link/loid/23636>

Algebra 1, Module 5, Topic 2 - Properties of Real Numbers - SOL A.4

Students learn about the properties of real numbers, which can be real numbers, variables, or algebraic expressions and they define how the things we call numbers should behave.

<http://www.emediava.org/link/loid/23583>

Algebra 1, Module 5, Topic 3 - Properties of Equality - SOL A.4

Students learn about the properties of equality that states that if you add the same number to both sides of an equation, the sides remain equal.

<http://www.emediava.org/link/loid/23585>

Algebra 1, Module 5, Topic 4 - Solving Multi-Step Linear Equations Algebraically - SOL A.4

Students learn that solving linear multi-step methods are used for the numerical solution of ordinary differential equations.

<http://www.emediava.org/link/loid/23587>

Algebra 1, Module 5, Topic 5 - Solving Multi-Step Linear Equations Graphically - SOL A.4

Students learn how to solve multi-step linear equations using a graphics calculator and discover that it is an equation, that requires more than two actions (operations) in order to be solved.

<http://www.emediava.org/link/loid/23589>

Algebra 1, Module 5, Topic 6 - Using the Elimination Method to Solve Systems of Linear Equations - SOL A.4

Students learn that the elimination method for solving systems of linear equations uses the addition property of equality.

<http://www.emediava.org/link/loid/23591>