



CW High School

Algebra I A

1. Equations and Expressions (25.00%)

Learning Targets

1.1 I can understand and apply the laws of exponents to simplify complex expressions including negative exponents and exponents of zero.

Learning Target	Descriptor	Definition
4	Proficient	I can understand and apply the laws of exponents to simplify complex expressions including negative exponents and exponents of zero.
3	Developing	I can understand and apply the laws of exponents to simplify expressions involving negative exponents and exponents of zero.
2	Basic	I can simplify a basic expression involving a combination of multiplication, division, and powers to powers or numerical bases.
1	Minimal	I can simplify a basic expression involving multiplication or division of terms with the same base and powers to powers.
0	No Evidence	No evidence shown.

1.2 I can understand and apply the laws of radicals and roots to simplify complex expressions including fractional exponents.

Learning Target	Descriptor	Definition
4	Proficient	I can understand and apply the laws of radicals and roots to simplify complex expressions including fractional exponents.
3	Developing	I can understand and apply the laws of radicals and roots to simplify complex expressions.
2	Basic	I can understand and apply the laws of radicals and roots to simplify basic expressions including fractional exponents.
1	Minimal	I can take basic roots of integers.
0	No Evidence	No evidence shown.

1.3 I can solve a two or more step equation involving parenthesis and negative numbers including those with no solution or all real numbers solutions.

Learning Target	Descriptor	Definition
4	Proficient	I can solve a two or more step equation involving parenthesis and negative numbers including those with no solution or all real numbers solutions.
3	Developing	I can solve a two or more step equation involving parenthesis.



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Learning Target	Descriptor	Definition
2	Basic	I can solve a two step equation.
1	Minimal	I can solve a one step equation.
0	No Evidence	No evidence shown.

1.4 I can find the product of binomials using a generic the FOIL Method, and the product of a monomial and polynomial using the distributive property.

Learning Target	Descriptor	Definition
4	Proficient	I can find the product of binomials using a generic the FOIL Method, and the product of a monomial and polynomial using the distributive property.
3	Developing	I can find the product of binomials and polynomials.
2	Basic	I can find the product of two binomials with positive values.
1	Minimal	I can use the distributive property to find the product of a monomial and binomial.
0	No Evidence	No evidence shown.

1.5 I can solve equations involving multiplication of binomials and absolute value.

Learning Target	Descriptor	Definition
4	Proficient	I can solve equations involving multiplication of binomials and absolute value.
3	Developing	I can solve an equation involving multiplication of binomials or absolute value with minimal errors.
2	Basic	I can solve an equation involving multiplication of binomials or absolute value with one minor error.
1	Minimal	I can solve a basic absolute value equation with two solutions.
0	No Evidence	No evidence shown.

1.6 I can solve equations involving two variables.

Learning Target	Descriptor	Definition
4	Proficient	I can solve equations involving two variables.
3	Developing	I can solve an equation with more than one step.
2	Basic	I can rewrite a linear equation in standard form into slope intercept form.
1	Minimal	I can solve a one step equation involving two variables.



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Learning Target	Descriptor	Definition
0	No Evidence	No evidence shown.

1.7 I can factor quadratic equations completely, including when the leading coefficient isn't 1, when there is a common term or when there is a difference of two perfect squares.

Learning Target	Descriptor	Definition
4	Proficient	I can factor quadratic equations completely, including when the leading coefficient isn't 1, when there is a common term or when there is a difference of two perfect squares.
3	Developing	I can factor quadratic equations with minimal errors, including when the leading coefficient isn't 1, when there is a common term or when there is a difference of two perfect squares
2	Basic	I can factor a quadratic function with a leading coefficient of 1.
1	Minimal	I can factor out the common term of quadratic function.
0	No Evidence	No evidence shown.

1.8 I can solve a quadratic equation using the zero product property or quadratic formula that is not set equal to zero

Learning Target	Descriptor	Definition
4	Proficient	I can solve a quadratic equation using the zero product property or quadratic formula that is not set equal to zero
3	Developing	I can solve a quadratic equation that is equal to zero, but is not in factored form
2	Basic	I can solve a quadratic equation with minimal errors that is equal to zero, but is not in factored form.
1	Minimal	I can solve a quadratic equation that is equal to zero and is in factored form.
0	No Evidence	No evidence shown.

1.9 I can make a project that shows mastery of my knowledge of Equations and Expressions by creating my own examples of problems we discussed in this unit.

Learning Target	Descriptor	Definition
4	Proficient	I can make a project that shows mastery of my knowledge of Equations and Expressions by creating my own examples of problems we discussed in this unit.
3	Developing	I can make a project that shows near mastery of my knowledge of Equations and Expressions by using examples from this unit and analyzing which type each is.
2	Basic	I can make a project that shows understanding of my knowledge of Equations and Expressions.



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Learning Target	Descriptor	Definition
1	Minimal	I can show that I can remember the various properties of Equations and Expressions we discussed in this unit.
0	No Evidence	No evidence shown.

2. Functions and Formulas (25.00%)

Learning Targets

2.1 I can understand the difference between an input and output for a function/formula and solve for each.

Learning Target	Descriptor	Definition
4	Proficient	I can understand the difference between an input and output for a function/formula and solve for each.
3	Developing	I can understand the difference between an input and output for a function/formula and solve for each with minimal error.
2	Basic	I can properly identify the input and output of a given statement.
1	Minimal	I can properly identify the input or output of a given statement
0	No Evidence	No evidence shown.

2.2 I can use function notation correctly (including $f(x) =$ in the solution) and solve an equation in function notation given either the input or output.

Learning Target	Descriptor	Definition
4	Proficient	I can use function notation correctly (including $f(x) =$ in the solution) and solve an equation in function notation given either the input or output.
3	Developing	I can solve an equation in function notation when given the input.
2	Basic	I can solve an equation in function notation with minimal errors when given the input.
1	Minimal	I can recognize that $y = f(x)$.
0	No Evidence	No evidence shown.

2.3 I can properly determine which formula to use and determine how to use it, by correctly inputting values and using proper units.

Learning Target	Descriptor	Definition
4	Proficient	I can properly determine which formula to use and determine how to use it, by correctly inputting values and using proper units.
3	Developing	I can properly determine which formula to use and determine how to use it, by correctly inputting values and using proper units, with minimal error.



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Learning Target	Descriptor	Definition
2	Basic	I can plug in values to any formula when directed which formula to use.
1	Minimal	I can determine what formula would be needed for a given problem.
0	No Evidence	No evidence shown.

2.4 I can make a project that shows mastery of my knowledge of Functions and Formulas by finding other formulas we haven't discussed and creating my own examples of problems that work with them.

Learning Target	Descriptor	Definition
4	Proficient	I can make a project that shows mastery of my knowledge of Functions and Formulas by finding other formulas we haven't discussed and creating my own examples of problems that work with them.
3	Developing	I can make a project that shows near mastery of my knowledge of Functions and Formulas by taking formulas (ones we haven't discussed and some we have) and demonstrate how to evaluate previously created problems using them.
2	Basic	I can make a project that shows basic understanding of Functions and Formulas by showing how to apply a series of formulas.
1	Minimal	I can understand the basic use of various formulas.
0	No Evidence	No evidence shown.

3. Graphing (25.00%)

Learning Targets

3.1 I can graph any equation by plotting points.

Learning Target	Descriptor	Definition
4	Proficient	I can graph any equation by plotting points.
3	Developing	I can graph a linear or quadratic equation involving negative x values.
2	Basic	I can graph a quadratic equation by plotting points.
1	Minimal	I can graph a linear equation by plotting points.
0	No Evidence	No evidence shown.

3.2 I can explain what the slope and intercepts mean in context of a problem or graph.

Learning Target	Descriptor	Definition
4	Proficient	I can explain what the slope and intercepts mean in context of a problem or graph.



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Learning Target	Descriptor	Definition
3	Developing	I can find the slope, x and y intercept of a linear equation.
2	Basic	I can find the slope and x or y intercept of a linear equation
1	Minimal	I can find the slope of a linear equation
0	No Evidence	No evidence shown.

3.3 I can graph a line (including special cases $x =$, $y =$) given the equation, table, slope and y intercept or a situation.

Learning Target	Descriptor	Definition
4	Proficient	I can graph a line (including special cases $x =$, $y =$) given the equation, table, slope and y intercept or a situation.
3	Developing	I can graph a line given the equation, table, slope and y intercept or a situation.
2	Basic	I can graph a line given the slope and y intercept or the equation.
1	Minimal	I can graph a line given a table of values.
0	No Evidence	No evidence shown.

3.4 I can write the equation of any line given a graph, table, situation, slope and a point, or two points.

Learning Target	Descriptor	Definition
4	Proficient	I can write the equation of any line given a graph, table, situation, slope and a point, or two points.
3	Developing	I can write an equation of a line given a point on the line and the slope.
2	Basic	I can write an equation of a line given a table or graph.
1	Minimal	I can write an equation of a line given a graph.
0	No Evidence	No evidence shown.

3.5 I can demonstrate what domain and range of a function are.

Learning Target	Descriptor	Definition
4	Proficient	I can demonstrate what domain and range of a function are.
3	Developing	I can determine the domain and range of a function given its graph.
2	Basic	I can determine the domain or range of a function given its graph.



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Learning Target	Descriptor	Definition
1	Minimal	I can determine the domain of a function given its graph.
0	No Evidence	No evidence shown.

3.6 I can graph non-linear functions (cubic, circle, quadratic, absolute value) using various techniques learned in class, such as locating vertices, finding shifts.

Learning Target	Descriptor	Definition
4	Proficient	I can graph non-linear functions (cubic, circle, quadratic, absolute value) using various techniques learned in class, such as locating vertices, finding shifts.
3	Developing	I can graph non-linear functions (cubic, circle, quadratic, absolute value) using various techniques learned in class, such as locating vertices, finding shifts, with minimal error.
2	Basic	I can graph non-linear functions by plugging in values.
1	Minimal	I can identify what type of graph a given function will have.
0	No Evidence	No evidence shown.

3.7 I can show my mastery of Graphing by creating a model of a given situation and analyze the data needed to answer questions regarding domain, range, intercepts, slope, etc.

Learning Target	Descriptor	Definition
4	Proficient	I can show my mastery of Graphing by creating a model of a given situation and analyze the data needed to answer questions regarding domain, range, intercepts, slope, etc.
3	Developing	I can show my mastery of Graphing by creating a model of a given situation and analyze the data needed to answer questions regarding domain, range, intercepts, slope, etc., with minimal errors.
2	Basic	I can show my basic understanding of Graphing by making a model for a given situation and apply knowledge from this unit to solve various questions.
1	Minimal	I can show my basic understanding of Graphing by making a model for a given situation
0	No Evidence	No evidence shown.

4. Systems of Equations (25.00%)

Learning Targets

4.1 I can recognize a system that has one solution, no solutions, or an infinite number of solutions and relate that to the graph of the system.

Learning Target	Descriptor	Definition
4	Proficient	I can recognize a system that has one solution, no solutions, or an infinite number of solutions and relate that to the graph of the system.



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Learning Target	Descriptor	Definition
3	Developing	I can recognize a system that has one solution, no solutions, or an infinite number of solutions, but cannot relate to a given graph.
2	Basic	I can recognize that a system has either no solutions or an infinite number of solutions, but am not sure which relates to a given graph.
1	Minimal	I can recognize that a system has either one solution, no solutions, or an infinite number of solutions.
0	No Evidence	No evidence shown.

4.2 I can solve a system of equations using the Substitution Method (including the equal values method).


Learning Target	Descriptor	Definition
4	Proficient	I can solve a system of equations using the Substitution Method (including the equal values method).
3	Developing	I can set up to solve a system using both the substitution method and the equal values method and have minimal errors when solving.
2	Basic	I can solve using either Equal Values Method or substitution method and come up with a correct ordered pair for the solution.
1	Minimal	I am able to set up one equation using either equal values or substitution, but have errors when solving. I know that my answer is an ordered pair.
0	No Evidence	No evidence shown.

4.3 I can solve any system of equations using the Elimination Method.

Learning Target	Descriptor	Definition
4	Proficient	I can solve any system of equations using the Elimination Method.
3	Developing	I can solve a system of equations using the Elimination Method when both equations are set up in $ax + by = c$ format and multiplication is needed for both equations with minimal errors.
2	Basic	I can solve a system of equations using the Elimination Method with minimal errors when both equations are set up in $ax + by = c$ format and multiplication is needed for one equation.
1	Minimal	I can solve a system of equations using the Elimination Method with minimal errors when both equations are set up in $ax + by = c$ format and no multiplication is needed.
0	No Evidence	No evidence shown.

4.4 I can write two equations needed to model the situation, solve to find the solution, and write the answer in a sentence including a label.

Learning Target	Descriptor	Definition
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Learning Target	Descriptor	Definition
4	Proficient	I can write two equations needed to model the situation, solve to find the solution, and write the answer in a sentence including a label.
3	Developing	I can write two equations needed to model the situation and solve to find the solution with minimal errors.
2	Basic	I can define two variables, write two equations (with minimal errors) needed to model the situation and solve the written equations.
1	Minimal	I can define two variables needed to write the equations that model the situation.
0	No Evidence	No evidence shown.

Submitted on 7/29/2021 by