

In the beginning of the year next year you will take a diagnostic over all of the material that you have learned this year. The resources below will help you prepare for that assessment.

- 1.) Redo ALL of your old mid-summatives and summatives during the summer
- 2.) Work on the Khan websites below. They review all of the material that we have learned this year and the practice is interactive with immediate feedback and videos to help you if you forgot something.
- 3.) Work out the practice test the week before school and check your answers with the key.

Horizontal and Vertical Lines

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:horizontal-vertical-lines/e/horizontal-and-vertical-lines>

Slope Review

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:slope/e/slope-from-a-graph>

Key Features x and y intercepts of a line

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:x-intercepts-and-y-intercepts/e/linear-function-intercepts>

Interpreting key features of Intercepts and Slope in Context

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:linear-equations-graphs/x2f8bb11595b61c86:applying-intercepts-and-slope/e/using-slope-intercepts>

Writing the Equation of a line Point Slope Form

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:point-slope-form/e/converting_between_point_slope_and_slope_intercept

Writing the Equation of a line Slope-Intercept Form

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:writing-slope-intercept-equations/e/slope-intercept-equation-from-graph>

Graphing a line in Standard Form, using intercepts

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:forms-of-linear-equations/x2f8bb11595b61c86:standard-form/e/graph-from-standard-form-equation>

Solving Systems of Equations with Substitution

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:systems-of-equations/x2f8bb11595b61c86:solving-systems-of-equations-with-substitution/e/systems_of_equations_with_substitution

Solving System of Equations with Elimination

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:systems-of-equations/x2f8bb11595b61c86:equivalent-systems-of-equations-and-the-elimination-method/e/systems_of_equations_with_elimination_0.5

Solving Systems of Equations by Graphing

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:systems-of-equations/x2f8bb11595b61c86:introduction-to-systems-of-equations/e/graphing_systems_of_equations

Function Notation and Graphs

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:functions/x2f8bb11595b61c86:evaluating-functions/e/evaluate-functions-from-their-graph>

Function Notation and Equations

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:functions/x2f8bb11595b61c86:inputs-and-outputs-of-a-function/e/functions_matching_inputs_outputs

Domain and Range

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:functions/x2f8bb11595b61c86:introduction-to-the-domain-and-range-of-a-function/e/domain_and_range_0.5

Multiplying Polynomials

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:multiply-binomial/e/multiply-binomials-coefficient>

Solving Quadratics Equations: Factoring

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratics-multiplying-factoring/x2f8bb11595b61c86:factor-quadratics-intro/e/factor-quadratics-common-factor>

Solving Quadratics Equations: Quadratic Formula

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations/x2f8bb11595b61c86:quadratic-formula-a1/e/quadratic_equation

Solving Quadratics Equations: Completing the Square

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations/x2f8bb11595b61c86:completing-square-quadratics/e/completing_the_square_in_quadratic_expressions

Graphing Quadratics by Completing the Square to find the vertex

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations/x2f8bb11595b61c86:standard-form-quadratic/e/graphing_parabolas_0.5

Quadratics Key Features Practice

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations/x2f8bb11595b61c86:quadratic-forms-features/e/rewriting-expressions-to-reveal-information>

Transformations and Parabolas

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:quadratic-functions-equations/x2f8bb11595b61c86:transform-quadratic-functions/e/shift-parabolas>

Simplifying Square Roots

https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:rational-exponents-radicals/x2f8bb11595b61c86:simplifying-square-roots/e/simplifying_radicals

Graphing Absolute Value Functions using Transformations

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:absolute-value-piecewise-functions/x2f8bb11595b61c86:graphs-of-absolute-value-functions/e/graphs-of-absolute-value-functions>

Exponential Graphs and Writing the Equations of Exponential Functions

<https://www.khanacademy.org/math/algebra/x2f8bb11595b61c86:exponential-growth-decay/x2f8bb11595b61c86:exponential-functions-from-tables-graphs/e/construct-basic-exponential-functions-from-table-or-graph>