

Scroll to the bottom of this form for a link for Challenge Placement Exam information and a link to sign up for the 2017 exam



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Christopher A. Moore, Assistant Superintendent Educational Services

El Dorado Union High School District 9th Grade Placement Criteria for Mathematics

Placement at this time is based on grades from previous course and end of course final exam results. In the future, 8th grade Smarter Balanced Assessment Consortium (SBAC) Summative Assessment scores will assist with student placement as well.

The El Dorado Union High School District (EDUHSD) requires middle school teachers to make initial placement recommendations in January for scheduling purposes. However, final middle school teacher recommendations will be submitted by June 1. Middle school teachers are asked to follow the placement criteria outlined below when submitting final recommendations. Parents wishing to appeal the middle school teacher's placement shall submit a written request detailing the grounds for appeal to the high school principal. The written appeal will be shared with the student's guidance counselor and the high school's mathematics department chair. The principal will make the final decision regarding placement.

Algebra Foundations

This course is designed for students entering high school below grade level. This course will prepare students for success in our Algebra 1 course. Topics include math computation and pre-algebra concepts with a CA State Standards focus. This course is currently going through revision in order to best meet the needs of 9th grade students who have been enrolled in 8th grade CA State Standards math.

Textbook: **California Big Ideas Math Advanced 1**, Big Ideas Learning, LLC/ Holt-McDougal, 2015

Middle School Teacher Recommendation Criteria:

For students who failed to master 8th grade mathematics grade level standards and are entering high school with below grade level skills as measured by course marks and summative assessment results.

Algebra 1

This course is designed for students at grade level. Topics in this course are CA State Standards based and include solving multi-step and absolute value equations, solving proportions, solving a system of equations algebraically, solving and graphing compound inequalities, solving and graphing absolute value inequalities and systems of inequalities, graphing linear equations and systems of linear equations, writing equations of lines between two points and of lines parallel and perpendicular to a line and a given point, simplifying exponential expressions, function notation, evaluating and graphing functions, multiplying and factoring polynomials, solving quadratic equations by factoring, the quadratic formula and completing the square, operations with rational expressions and constructing and analyzing box-and-whisker plots for a set of data.

Textbook: **Algebra 1**, Pearson, 2015-CA edition

Middle School Teacher Recommendation Criteria:

For students who have successfully mastered 8th grade mathematics grade level standards as measured by course marks and summative assessments.

Geometry

This course is designed for students who completed a full Algebra 1 course in 8th grade. Topics in this course are CA State Standards based and include inductive and deductive reasoning, properties and proofs of parallel and perpendicular lines and congruent triangles, relationships with triangles, properties of polygons and quadrilaterals, similar shapes and proportional reasoning, trigonometry, transformations, properties of circles, finding area and perimeter of triangles, various quadrilaterals, regular polygons and circles, and finding the surface area and volume of prisms, pyramids, cones, cylinders, and spheres.

Textbook: **Geometry**, Pearson, 2012 edition

Middle School Teacher Recommendation Criteria:

Student earned a 75% or higher raw score on the EDUHSD Algebra 1 final.¹

Student earned an 80% or higher end of year grade in a full Algebra 1 course as described above.

Student earned an 80% or higher average on Algebra 1 assessments throughout the year.

Algebra 2 (UMHS only)

This course is designed for students who have completed full courses of both Algebra 1 and Geometry. Topics in this course are CA State Standards based and include linear and absolute value equations and inequalities, linear systems with two and three variables, linear programming, quadratic functions, polynomial functions, radical equations and rational exponents, exponential and logarithmic functions, rational functions, sequences and series, conic sections, probability and statistics, and introductory trigonometry including right triangle and special angle trigonometry, and laws of sines and cosines.

Textbook: **Algebra 2**, McGraw-Hill, 2014 edition

Middle School Teacher Recommendation Criteria:

Student earned an 80% or higher raw score on the EDUHSD Geometry final.²

Student earned an 85% or higher end of year grade in a full Geometry course as described above.

Student earned an 85% or higher average on summative assessments throughout the year.

Advanced Algebra 2 (EDHS, ORHS, PHS)

This course is designed for students who have completed full courses of both Algebra 1 and Geometry. This course covers the same topics as Algebra 2 but in more depth to ensure students are prepared for Pre-Calculus. Topics in this course are CA State Standards based and include linear and absolute value equations and inequalities, linear systems with two and three variables, linear programming, graphs in three dimensions, quadratic functions and systems, polynomial functions, radical equations and rational exponents, exponential and logarithmic functions, rational functions, sequences and series, conic sections, probability and statistics, and introductory trigonometry including right triangle and special angle trigonometry, and laws of sines and cosines.

Textbook: **Algebra 2**, Pearson, 2012 edition

Middle School Teacher Recommendation Criteria:

Student earned an 80% or higher raw score on the EDUHSD Geometry final.²

Student earned an 85% or higher end of year grade in a full Geometry course as described above.

Student earned an 85% or higher average on summative assessments throughout the year.

LINK TO CHALLENGE EXAM SIGN UP SITE: <https://goo.gl/forms/LaEek0tZVqV50vyG2>

¹ To be administered at the end of 8th grade by the middle school Algebra 1 teacher

² To be administered at the end of 8th grade by the middle school Geometry teacher

EDUHSD Algebra 1 Challenge Placement Exam for Incoming 9th Graders

This exam is for students who wish to test out of Algebra One and accelerate into Geometry as a freshman. It is our strong recommendation the student then follows-up with Advanced Algebra 2. In order to do so, the student must demonstrate competence in the following Algebra 1 categories. **This exam consists of all short answer questions and a scientific calculator is allowed.** Scientific calculators will be provided by the administering school site for the exam.



Recommendation for acceleration into Geometry will be based on:

- **Scoring at least an 85% overall total score**

Prerequisites:

A student who wants to take challenge placement exam must have met one of the following prerequisites:

- Completed 8th grade course 3 (or equivalent) with 90% or better.
- OR**
- Completed Algebra 1 in 8th grade but were not recommended for Geometry.



Question Categories (number of questions on exam):

- A. Solve Multi-Step Equations (3)
- B. Solve Proportions (3)
- C. Pythagorean Theorem (2)
- D. Solve and Graph Inequalities (2)
- E. Solve and Graph Absolute Value Equations and Inequalities (2)
- F. Evaluate Formulas (2)
- G. Write the Equation of a Line (3)
- H. Graph Linear Equations (2)
- I. Graph Non-Linear Equations (3)
- J. Characteristics of Quadratic Equations (4)
- K. Write Equations of Parallel and Perpendicular Lines (4)
- L. Solve Systems of Equations (3)
- M. Graph Systems of Linear Inequalities (2)
- N. Simplify Expressions with Exponents (2)
- O. Simplify Polynomials (4)
- P. Factor Polynomials (4)
- Q. Solve Quadratics by Factoring (4)
- R. Solve Quadratics by Quadratic Formula (2)
- S. Complete the Square (1)
- T. Simplify Rational Expressions (2)
- U. Write Equations to model Real Life Situations (2)
- V. Simplifying Radicals (4)



Total Number of Short Answer Questions - 60

Testing Information

Dates: Tuesday, July 25th OR Tuesday August 1st. You can only take the exam once.

Where: Oak Ridge High School

Time: 10:00 am – 12:00 pm. Please check in at 9:45 am by the Administration building.

Please sign up at the following link by JULY 15, 2017:

<https://goo.gl/forms/LaEek0tZVqV50vyG2>

Recommendations to Prepare:

- List of 22 question categories
- Ponderosa Algebra One → <http://phsmath.startlogic.com/Spring/Pages/algebrafallorspring.htm>
- Algebra Math Men → <http://mathmenalg1.weebly.com/>
- Khan Academy Algebra One Course

If you have any questions, please contact Mr. Diaz at adiaz@eduhd.k12.ca.us

