

# 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 at least one of the following prerequisites:

- Currently in an 8th grade course 3 (or equivalent) with 90% or better.
- OR**
- Currently in Algebra 1 in 8th grade but were not recommended for Geometry at the time of registration.



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: Monday, May 21<sup>st</sup>, 2018

Where: Oak Ridge High School **OR** El Dorado High School

Time: 3:00 pm – 5:00 pm. Please check in at 2:45 pm by the Administration building.



Please sign up at the following link by May 14<sup>th</sup>, 2018:

**<https://goo.gl/forms/YNhN6OYVqtOABkG33>**



### 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

El Dorado – Mr. Round at [dround@eduhd.k12.ca.us](mailto:dround@eduhd.k12.ca.us)

Oak Ridge – Mr. Diaz at [adiaz@eduhd.k12.ca.us](mailto:adiaz@eduhd.k12.ca.us)

