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. This will then qualify the student to take Biology as their science class. 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 - a scientific calculator is allowed.**

Recommendation for acceleration into Geometry will be based on:

- **Scoring at least an 80% 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.
- Currently in Algebra 1 in 8th grade but were not recommended for Geometry at the time of registration.

AND

- Participate in the Summer Prep for Algebra 1 Challenge Exam program (see page 2)

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

Summer Prep for Algebra 1 Challenge Exam Information
(Students, who are already placed in Geometry, may
also sign up for a session to review Algebra 1 topics)

- Instruction provided virtually over Google Meet (2-3 objectives covered per meet.)
- Practice Problems assigned digitally
- **Algebra 1 Challenge Exam In-Person at Oak Ridge High**
- Must have at least 12 sign-ups per session
- Instructor – Ellen Mulert, ORHS Math Dept.
- Sign Up Link: https://forms.gle/o1XQmGotJu1n3dQY8

Session 1 (3:00-4:00 pm)

- Tue-Fri June 8-11
- Mon-Fri June 14-18
- **Algebra 1 Challenge Exam 3:00-5:00 Friday, June 18th**

Session 2 (3:00-4:00 pm)

- Mon-Fri June 21-25
- Mon-Th June 28-July 1
- **Algebra 1 Challenge Exam 3:00-5:00 Thursday, July 1st**

Session 3 (3:00-4:00pm)

- Mon-Fri July 12-16
- M-Th July 19-22
- **Algebra 1 Challenge Exam 3:00-5:00 Thursday, July 22nd**

Please note: There will be no additional testing opportunities to challenge Algebra 1 through taking the Algebra 1 Challenge Exam.

Updated – 5/10/2021