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 - 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 the challenge placement exam must have met at least one of the following prerequisites:
- Currently in Algebra 1 in 8th grade but were not recommended for Geometry at the time of registration.
    OR
- Currently in an 8th grade Course 3 (or equivalent) with 90% or better.

    NOTE – **Students, who are already placed in Geometry, may also sign up for a session to review Algebra 1 topics.**

Recommendations for Preparation:
- Participate in the Summer Prep for Algebra 1 Challenge Exam Week-long Session (see page 2)
- Self-study using free/paid online courses (Khan Academy, etc.) or other methods (personal tutor, etc.). Any costs associated with this type of self-study is the sole responsibility of the student.

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. W rite Equations to model Real Life Situations (2)
   V. Simplifying Radicals (4)
   Total Number of Short Answer Questions - 60

<u>Options for the Algebra 1 Challenge Exam – You may only select ONE option</u>

<u>Option #1 – Summer Prep for Algebra 1 Challenge Exam Week-long Session</u>

❖ 4 total days – 3 days of in person instruction/practice, 1 day of test administration
❖ Must have at least 10 signups per session. Max of 20 students per session.
❖ Instruction provided by Ponderosa High math teacher – Mr. LaBass

- **<u>Session 1:</u>** <u>Monday June 10th – Thursday June 13th</u>
  o 9:30 am – 12:00 pm
  o Ponderosa High School – Room N8
  o Challenge Exam Thursday, June 13th

- **<u>Session 2</u>**: <u>Monday June 17th – Thursday June 20th</u>
  o 9:30 am – 12:00 pm
  o Ponderosa High School – Room N8
  o Challenge Exam Thursday, June 20th

<u>Option #2 – Self-Study</u>

❖ Challenge Exam ONLY – Proctored by ORHS math teacher – Mr. Diaz

- **<u>Session 3</u>**: <u>Thursday, August 1st</u>
  o 9:00 am – 11:00 am
  o Oak Ridge High School – Check-in at Admin Front Office/Counseling Office

<u>LINK TO SIGN UP BY JUNE 1, 2023</u>

https://docs.google.com/forms/d/e/1FAIpQLSd2Vpaw4xdt
_GiuWKlyuuuAtakw6Jk-cIu-FXnfBYs-hJshCQ/viewform

(or scan the QR code)

<u>Email Contact</u>

- **<u>Mr. LaBass</u>**: alabass@eduhsd.k12.ca.us - Please contact Mr. LaBass for questions regarding **sign-ups** and **Option #1** (Session 1 and Session 2 week-long sessions)

- **<u>Mr. Diaz</u>**: adiaz@eduhsd.k12.ca.us – Please contact Mr. Diaz for questions regarding **Option #2** (Session 3 – Self-Study examination only)