



SHDHS Incoming Freshman Math Placement Exam

Saturday, April 28, 2018
8:00 – 9:00 a.m.
St. Henry District High School

For more information or to register,
contact:
Ms. Clare Grosser at cgrosser@shdhs.org
or call the school office at 525-0255



What is the Freshman Math Placement Exam?

An exam that assesses *Algebra I* concepts and skills required for successful transition to *Geometry Honors* as a freshman and *Algebra II Honors* as a sophomore.

Who should take the Freshman Math Placement Exam?

This exam is for 8th grade students who wish to register for *Geometry Honors* as a freshman at SHDHS.

NOTE: Students wishing to take *Algebra I* or *Algebra I Honors* do not need to take this exam.

Why is the Freshman Math Placement Exam being offered?

SHDHS is offering this exam to place incoming freshmen in the math class that most closely matches their skill set and to ensure a successful high school math career.

How should a student prepare for the Freshman Math Placement Exam?

Students should be familiar with all general *Algebra I* topics that are covered in their 8th grade *Algebra I* class.

Freshman Math Courses Offered at SHDHS

Algebra I

Pre-Requisites

- Completed *Pre-Algebra* with an average rate of success, or
- Completed *Algebra I* with an average rate of success, or
- Never taken *Algebra I*

Algebra I Honors

Pre-Requisites

- Completed *Pre-Algebra* with a high rate of success, or
- Completed *Algebra I* with an average rate of success

Geometry Honors

Pre-Requisites

- Completed *Algebra I* with a high rate of success, AND
- Demonstrated proficiency on the SHDHS Freshman Placement Exam



Students who are prepared for *Geometry Honors* should demonstrate proficiency with *Algebra I* skills such as, but not limited to, the following:

- Using order of operations to simplify expressions.
- Solving two-step and multi-step equations in one variable.
- Solving multi-step inequalities and graphing the solutions.
- Evaluating a function for given input values and working with functions in function notation.
- Finding and using x - and y -intercepts to graph lines.
- Writing and graphing linear equations in slope-intercept or point-slope form.
- Solving systems of linear equations in two variables by substitution and elimination.
- Using properties of exponents to evaluate and simplify expressions.
- Adding, subtracting, and multiplying polynomials.
- Finding products of monomials, binomials, & trinomials.
- Factoring polynomials.
- Solving quadratic equations using the Quadratic Formula.
- Simplifying radical expressions.
- Adding, subtracting, multiplying, and dividing with radical expressions.
- Solving radical equations.
- Simplifying rational expressions.