

SFHS – Mathematics Program Information for Incoming Freshmen

Math Placement Test For placement into Geometry or Honors Geometry Algebra Topics for Review

Success in future math courses is dependent on a strong algebra background. Only students who demonstrate they have a solid foundation in Algebra will be advanced to Geometry. A review of these topics before taking the test is recommended. Most of the questions on the placement test will fall into one or more of these categories. We understand that the test is administered before the end of the school year and that schools are using different textbooks with different sequences of topics. We will keep that in mind as we score the tests.

<p>➤ Real Numbers</p> <ul style="list-style-type: none">• Addition, subtraction, multiplication & division of signed numbers• Order of operations• Evaluation of algebraic expressions• Absolute Value	<p>➤ Polynomials</p> <ul style="list-style-type: none">• Addition, subtraction, multiplication & division• Exponents• Factoring common factor• Factoring trinomials• Negative Exponents	<p>➤ Equations and Inequalities</p> <ul style="list-style-type: none">• Linear Equations• Literal Equations• Quadratic Equations• Absolute Value Equations• Simple Rational Equations• Linear inequalities (including their graphs on a number line)
<p>➤ Graphing</p> <ul style="list-style-type: none">• Points• Linear Equations• Slope & y-intercept• Finding the equation of a line• Interpreting bar/cycle graphs	<p>➤ Percent</p> <p>➤ Ratios & Proportions</p> <p>➤ Systems of Linear Equations</p> <ul style="list-style-type: none">• Substitution• Elimination (linear combinations)	<p>➤ Word Problems</p> <ul style="list-style-type: none">• Translating verbal expressions• General• Money• Motion• Perimeter & Area of circles, triangles, rectangles• Consecutive Integer