

MHS Curriculum Overview  
Math

Last Updated June 2024

<p><b>Algebra 1</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1 <ul style="list-style-type: none"> <li>○ Linear Relationships</li> <li>○ Solving Equations</li> <li>○ Systems of Equations</li> <li>○ Sequences</li> </ul> </li> <li>● Semester 2 <ul style="list-style-type: none"> <li>○ Exponential Functions</li> <li>○ Graphing Quadratics</li> <li>○ Solving Quadratics</li> <li>○ Inequalities</li> </ul> </li> </ul>	<p><b>Geometry</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1 <ul style="list-style-type: none"> <li>○ Transformations</li> <li>○ Similarity</li> <li>○ Trigonometry</li> </ul> </li> <li>● Semester 2 <ul style="list-style-type: none"> <li>○ Polygons</li> <li>○ Surface Area and Volume</li> <li>○ Circles</li> </ul> </li> </ul>	<p><b>Algebra 2</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1: <ul style="list-style-type: none"> <li>○ Transformations</li> <li>○ Solving and Rewriting</li> <li>○ Polynomials</li> <li>○ Inequalities and Optimization</li> </ul> </li> <li>● Semester 2: <ul style="list-style-type: none"> <li>○ Inverses and Logarithms</li> <li>○ Trigonometry</li> <li>○ Probability</li> </ul> </li> </ul>
<p><b>Precalculus</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1: <ul style="list-style-type: none"> <li>○ Function Transformations</li> <li>○ Series &amp; Area Under the Curve</li> <li>○ Rational and Polynomial Functions</li> <li>○ Exponential &amp; Logarithmic Functions</li> </ul> </li> <li>● Semester 2 <ul style="list-style-type: none"> <li>○ Trigonometry</li> <li>○ Limits</li> <li>○ Conic Sections</li> <li>○ Vectors &amp; Parametric Equations</li> </ul> </li> </ul>	<p><b>Calculus A/B</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Derivatives</li> <li>● Integrals</li> <li>● Limits</li> <li>● The Fundamental Theorem of Calculus</li> </ul>	<p><b>Calculus B/C</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Derivatives</li> <li>● Integrals</li> <li>● Limits</li> <li>● The Fundamental Theorem of Calculus</li> <li>● Sequences and Series</li> <li>● Parametric, Polar, and Vector Curves</li> </ul>
<p><b>Statistics</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1: <ul style="list-style-type: none"> <li>○ Descriptive Statistics</li> <li>○ Probability and Counting</li> <li>○ Random Variables and Their Probability Distributions</li> </ul> </li> <li>● Semester 2: <ul style="list-style-type: none"> <li>○ Confidence Intervals</li> <li>○ Hypothesis Tests</li> <li>○ Correlation &amp; Regression</li> <li>○ Chi-Square Tests</li> </ul> </li> </ul>	<p><b>Trades Math</b></p> <p>Gradebook standards and Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1: <ul style="list-style-type: none"> <li>○ Unit Conversions,</li> <li>○ Fractions,</li> <li>○ Ratio, Proportions, and Percents,</li> <li>○ Trigonometry</li> </ul> </li> <li>● Semester 2: <ul style="list-style-type: none"> <li>○ Area and Perimeter,</li> <li>○ Surface Area and Volume,</li> <li>○ Linear Optimization</li> </ul> </li> </ul>	<p><b>Global Math</b></p> <p>Gradebook standards and Topics of Study</p> <p>Topics of Study</p> <ul style="list-style-type: none"> <li>● Semester 1: <ul style="list-style-type: none"> <li>○ Ancient Number Systems</li> <li>○ Greek Mathematics</li> <li>○ Eastern Mathematics</li> </ul> </li> <li>● Semester 2: <ul style="list-style-type: none"> <li>○ European Mathematics</li> <li>○ Women in Mathematics</li> <li>○ Cryptography/Number Theory</li> </ul> </li> </ul>