

Probability and Geometry

Most ninth graders will be in this course. Sophomores, Juniors and Seniors are also in this course if they haven't received credit in Geometry yet. Students will proceed next year into Algebra 1, Algebra 2, PreCalculus, and Calculus depending on skills demonstrated in this course.

Standards for the Year

Probability Standards (First Trimester)

- Interpreting and Comparing Categorical Data
 - Representing and Interpreting Data
 - Making Inferences and Justifying Conclusions
- Conditional Probability and Rules of Probability
 - Uniform Probability, Determining Independence and the Addition Rule
 - Conditional Probability
 - Using Probability to Make Inferences

Geometry Standards (Second/Third Trimester)

- Tools of Geometry
 - Undefined Terms, Precision, and Linear Measure
 - Properties of Angles
 - Geometric Constructions
- Geometric Proof
 - Logic and Reasoning
 - Proofs with Line Segments and Angles
 - Proofs with Parallelograms
- Parallel and Perpendicular Lines
 - Angles and Parallel Lines
 - Equations of Parallel and Perpendicular Lines
- Transformations
 - Rigid Motion
 - Non-Rigid Motion
- Congruent Triangles
 - Properties of Triangles
 - Isosceles Triangles
 - Proving Triangle Congruence
- Similarity
 - Scale Factor and Proportional Parts
 - Similar Triangles
- Right Triangles
 - Pythagorean Theorem
 - Trigonometry
- Circles
 - Measuring Circles
 - Relationships in Circle
- Area and Volume
 - Area of Polygons and Circles
 - Volume