



GEOMETRY 21

Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

COURSE DESCRIPTION

Geometry 21 offers accelerated coursework with emphasis on concepts of mathematical structure and formal proof (postulates, theorems and corollaries). The properties of 1, 2, and 3 dimensional figures will be investigated and algebraic skills and concepts will be applied to geometric relationships (e.g., a study of points, lines, angles, and polygons on a plane surface and in space.) The study of coordinate geometry is integrated throughout the course. In addition, students will perform constructions with compass and straightedge, logic and truth tables and indirect reasoning.

COURSE OBJECTIVES

Students should:

- understand and describe patterns and functional relationships.
- use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.
- understand and apply basic concepts of probability.
- use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.
- use spatial reasoning, location and geometric relationships to solve problems.
- develop and apply units, systems, formulas and appropriate tools to estimate and measure.

UNITS OF STUDY

- The Language of Geometry
- Reasoning and Proof
- Parallels
- Congruent Triangles
- Triangles
- Quadrilaterals
- Similarity
- Right Triangles and Trigonometry
- Circles
- Area and Volume of Polygons and Polyhedra
- Coordinate Geometry
- Transformations

COURSE POLICIES AND REQUIREMENTS

GRADING

- Summative Assessments: Insert % Here (Minimum of 70%).
Insert Categories/Weighting (ie. Papers – 30%)
- Formative Assessments: Insert % Here (Maximum of 30%).

Behavioral Characteristics: Insert Categories/Weighting (ie. Quizzes – 50%)
Insert % Here (Maximum of 10%)
Insert Categories/Weighting (ie. Particip. - 90%)
Insert Additional Grading Information Here

MATERIALS

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

EXPECTATIONS OF STUDENTS

Insert Course Expectations Here

EXTRA HELP

Insert Course Expectations Here

Insert Additional Information Here