Geometry Instruction in the West Shore School District

This course explores the basic structure of geometry and develops an understanding and appreciation of deductive logic in mathematics. The course is designed to strengthen algebraic skills, develop powers of spatial visualization, and assist students to grow in the understanding of the deductive method and the need for precision of language.

Best Practices in Middle School Geometry:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

Skills and Concepts:

- Essentials of Geometry
- Reasoning and Proof
- Parallel & Perpendicular lines
- Congruent Triangles
- Relationships within Triangles
- Similarity
- Right Triangles and Trigonometry
- Quadrilaterals
- Circles
- Measurement of Figures and Solids
- Transformations
- Probability

Assessments:

WSSD utilizes a variety of assessments to monitor student growth and achievement. Our teachers engage in daily informal formative assessments to make timely decision about whether a student understands the material and concepts being presented. We also utilize several summative assessments to determine if a student has mastered grade level skills and standards.

Some of the assessment utilized are:

Quizzes
Tests
Projects
Midterm
Final Exam

Item samples for PSSA/ Keystone:

Examples

Materials and Resources:

WSSD utilizes a variety of resources to meet all learners' needs.
Graphing Calculator
Protractor
Compass
Graph paper