



MAM201: Mathematics 8

Course Title: Mathematics 8

GRADE LEVEL: 8

CODE: MAM201

COURSE LENGTH: 36 weeks

Major Concepts/Content: The mathematics 8 course is designed to present topics in computation, including operations with whole numbers, decimals and fractions, integers, rational numbers, and real numbers. Number theory facts are employed to solve problems with fractions, ratios, and percents. Students will be introduced to solving one- and two-step equations and inequalities; measuring angles, perimeters, volumes, and areas using metric and customary units; graphing to include the coordinate plane; and estimating conclusions through the use of probability and statistics,

Major Instructional Activities: Instructional activities will involve students in a step-by-step process in performing computations mentally, with paper and pencil, and with calculators or computers; in using proper instruments for geometric constructions and measurement; and in applying mathematical concepts to everyday situations. Problem-solving strategies will teach students to read, analyze, plan, solve, and check multi-step problems.

Major Evaluative Techniques: Students will be evaluated on completing given assignments, participating in class activities, and completing the computations and measurements contained in written tests. Formal tests will normally be administered at the completion of units and chapters, midyear, and at the end of the course.

Essential Objectives: Upon completion of the mathematics 8 course, students should be able to:

- Solve word problems having consumer and career applications.
- Illustrate the commutative, associative, and distributive properties of real numbers.
- Estimate the probability of an event occurring.
- Perform the four basic operations with rational numbers.
- Solve proportions. Solve problems in measurement to include perimeters, areas, and volumes.
- Identify the relationships among the angles formed when parallel lines are cut by a transverse.

Last Revised: March 13th, 2009 at 11:10 am.