

Course Description

The mathematics course is designed to ensure the students understand the basic concepts of mathematics. The course includes practice in the four basic operations with whole numbers, fractions, decimals, and an introduction to integers. Topics in number theory, ratio and proportion, percent and probability and statistics are included to increase student's ability to manipulate numbers in computational ways; and topics in measurement, geometry, perimeters, areas, volumes, and probability are included to demonstrate the application of mathematics to real life situations.

The pre-algebra course is designed to aid students in making the transition from K-8 mathematics to algebra by reinforcing and building on basic operations with whole numbers, fractions, decimals, and percents. The properties of numbers and simple equation – solving techniques are introduced gradually. Students are guided carefully through problem solving processes to encourage greater analytical skills.

The DoDEA Curriculum Standards for Mathematics will serve as the framework for lesson development.

- M1: Number and Operation Concepts
- M2: Algebra
- M3: Geometry
- M4: Measurement
- M5: Data Analysis & Statistics
- M6: Problem Solving
- M7: Reasoning & Proof
- M8: Communication
- M9: Connection
- M10: Representation

These courses will help the students: Learn all the important middle grades mathematics concepts and skills that prepare them for high school and beyond. Develop the reasoning, problem solving, and communication skills that enable them to apply mathematics to real life activities. Value mathematics and become confident in using it to make decisions in daily life.