DoDEA began implementing the College and Career Ready Standards for Mathematics in school year 2015-2016. The goal of the DoDEA Mathematics Program is to offer a balanced curriculum including hands-on learning, problem solving, mathematical discourse, conceptual development, and procedural skills practice organized by the following content progressions and Standards for Mathematical Practice (SMPs). We accomplish this by providing our students with an instructional sequence that is focused on their ability to reason and think mathematically. Curriculum standards, effective learning strategies, and ongoing assessing of student progress are essential components of the mathematics program.

The mathematics instructional progression is based on the DoDEA College and Career Ready Standards for Mathematics (CCRSRM). Our program uses a backwards design model curriculum structured with inquiry: what is it that we want our students to know and to be able to do at each grade level?

**Mathematics in K - Grade 5**

Kindergarten -grade 5 mathematics is centered on students' learning and their ability to reason and think mathematically. Curriculum standards, effective instructional strategies, and the ongoing assessment of student progress are essential components of the DoDEA comprehensive mathematics program.

**Mathematics in the Middle School Grades 6 - 8**
Mathematics in DoDEA middle schools is designed to focus on problem solving and the application of mathematical concepts. Concepts and skills are developed through focused, rigorous, and coherent progressions of understanding and embedded in the context of when and where they will be used. Technology and appropriate mathematical tools are used to enhance the teaching and learning of mathematics. As students move into the ninth grade, mathematics program options allow each student to pursue mathematics appropriate to their educational goals. Students who enroll in Math 8/Algebra 1 in middle school may be able to accelerate their high school mathematics program, including additional advanced course options.

**Mathematics in the High School Grades 9 - 12**

Mathematics in DoDEA high schools is designed to extend the learning of students in K-8, with greater emphasis on mathematical modeling that replicates the workplace and everyday life. The DoDEA CCRSM are organized by Conceptual Categories that are mixed throughout our high school course offerings. The conceptual category of Modeling is of greatest importance, and is placed into every course offered.

All DoDEA students must complete 4.0 mathematics credits, including Algebra I, Geometry, Algebra II, and an additional 400 level course to earn a DoDEA diploma. While students may start earning some of these credits in middle school, at least three of these four credits must be earned in high school. In addition to the three core mathematics courses, DoDEA offers Advanced Quantitative Reasoning, Discrete Mathematics A and B, Financial Algebra A and B, Pre-calculus, AP Calculus AB and BC, and AP Statistics. For DoDEA mathematics graduation requirements for the class of 2019 and beyond, please visit the graduation requirements tab or consult your guidance counselor.

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