



# Update to 2019-20 Middle and High School Planning Guides

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Secondary Education



# Background

- Information/Discussion-November 8, 2019
- Consent-November 13, 2019
  - Approved with revisions forthcoming



# Additional Revisions

- Addition of Technical Math-Coronado
  - Aligned with Engineering
  - Dual Enrollment through Mesa Community College (MCC)
- Addition of International Baccalaureate (IB) Courses-DMHS
- 8<sup>th</sup> grade transfer credits



# Addition of Technical Math

The instruction in this course is a study of mathematical principles which include use of hand-held calculators, basic operations, significant digits, exponents, square roots and order of operations. Students solve problems using arithmetic, signed numbers, percentages, fractions, exponents and square root. Students will also study fundamental algebraic operations, problem solving metric measurement, gears, pulleys and simple mechanism problems, areas and volume calculations of geometric figures and essentials of trigonometry for solving right and oblique triangles. \*Dual enrollment – Optional college credit may be available; additional fee required.



# Addition of New IB Math Classes

## MYP Math Inquiry and Reasoning

This course covers topics that are seen as necessary for further study of mathematics, and includes the study of functions, geometry, complex numbers and trigonometry. Students will study topics that investigate patterns, look for conjectures and develop proofs. The emphasis of the course will be on the conceptual understanding of algebraic methods and aids to develop strong skills in mathematical thinking and problem solving.

# Addition of New IB Math Classes continued



## Math HL 1 Analysis and Approaches

This course is for students interested in mathematics, engineering, physical sciences and some economics. The course is offered as an HL -(2 year) class at DMHS. This course covers topics that are seen as necessary for further study of mathematics, and includes the study of functions, trigonometry, and calculus as well as topics that investigate patterns, look for conjectures and develop proofs. The emphasis of the course will be on algebraic methods and aims to develop strong skills in mathematical thinking and problem solving.



# Addition of New IB Math Classes continued

## Math HL 1 Applications and Interpretation

This course is for students interested in social sciences, natural sciences, medicine, statistics, business, psychology and design. The course is offered as an HL (2 year) class at DMHS. This course covers topics that emphasize modelling and statistics and includes the study of functions, geometry, and calculus. The course makes extensive use of technology to allow students to explore data, develop models and make predictions. Students will develop strong skills in applying mathematics to the real-world.



# Clarification of 8th Grade Transfer Credits

- Students/parents will have the opportunity to opt-in to HS credit for Algebra 1 and Level 1 World Language courses completed in 8th grade.
- Opt in needs to be chosen no later than the last day of school of the student's 6th high school semester.



# Questions/Comments