Desert Vista - Summer Math Academy

Desert Vista High School Math Department proudly offers another successful year of summer school! The DV math department has offered summer school since 2000. In the past, we have had as many as 450 4th through 10th graders take advantage of this opportunity per year.

This program has a threefold purpose:

- Allowing students to move ahead in math, or into honors. (Note: for the highly motivated student)
- Remediating a student's math skills to help bring students up to grade level.
- Sharpening a student's math skills by previewing a class for the next school year.

Students can use this summer program to better prepare for the AzMerit test as well as satisfy the new four year math requirement. Many universities require students to take at least Calculus and Statistics; both classes are offered at Desert Vista for our accelerated students.

Register early, space is limited. Registration begins Feb 8, 2020 and runs through May 20th.

Complete the registration paperwork and return to the DV bookstore.

WHO: Current 4th-5th-6th-7th-8th-9th-10th-11th graders

OFFERING: 6th Grade Math, 7th Grade Math, 8th Grade Math, Algebra, and Honors Geometry and an Algebra 3-4 preview.

WHEN: 7:30 a.m. until 12:40 p.m. for Algebra, H. Geometry and Algebra 3-4
7:45 a.m. until 11:30 a.m. for 6th, Pre-Algebra, Linear Algebra

6 weeks (Monday through Friday) starting Monday, May 26, 2020 until Friday, June 26th, 2020

COST: Algebra 1-2, Honors Geometry - $350
All other classes: $300
NO Refund after May 15, 2020

WHERE: Classes are located at Desert Vista High School on Southeast corner of Liberty Lane/32nd Street (16440 E 32nd Street)

For more details contact Jeff Baluch at jbaluch@tempeunion.org

Please put “Summer Math Academy” in the subject
**Curriculum:**

**In Grade 6,** instructional time focuses on four critical areas: (1) connecting ratio and rate to whole number multiplication and division and using concepts of ratio and rate to solve problems; (2) completing understanding of division of fractions and extending the notion of number to the system of rational numbers, which includes negative numbers; (3) writing, interpreting, and using expressions and equations; and (4) developing understanding of statistical thinking.

**In Grade 7,** instructional time focuses on four critical areas: (1) developing understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers and working with expressions and linear equations; (3) solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples. (Now called Pre-Algebra, formerly 7th grade math)

**In Grade 8,** instructional time focuses on three critical areas: (1) developing understanding of operations with rational numbers, formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations; (2) grasping the concept of a function and using functions to describe quantitative relationships; (3) analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean theorem. (Now called Linear Algebra, formerly Pre-Algebra)

**Algebra 1-2**
Number Systems (3) Integers =,-,x,/ Fractions +,-,x,/ (4) Decimals +,-,x,/ PerCent Real Numbers

**Honors Geometry (Algebra throughout)**
Textbook: "Geometry For Enjoyment and Challenge", Rhoad, McDougal--1991;
Conditional, Converse, inverse, Contraapositive (2), Definitions and proofs (1), Angles (7), Complementary and Supplementary angles (6), Midpoint (3), Congruent Triangles (3), Triangles (7), Parallel/Perpendicular Lines, Angles, Slopes (4), Space (2), Quadrilaterals (5), Polygons (4) sem2: Similar (3), Pythagorean Triples (3), 30-60-90/45-45-90 (3), Trigonometry (2), Circle Angles, Segments (9), Areas (12), Surface Area/Volume (7), Coordinate Geometry (3), Locus, Inequalities (Hinge), Crook Problems (1), Transformations (4), Probability (3), Matrices (1) Nets(1), Sequences (4), Walk Around Problems (1).

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Algebra 3-4
This course begins with a review of Algebra 1-2 topics and introduces the following new topics: matrices, complex numbers, exponential and logarithmic functions, conic sections, higher degree polynomial functions, sequences and series, and trigonometry. This course or Honors Algebra 3-4 is required for students who are planning to attend most post-secondary institutions.

Last Updated: 1/10/19