



## VIRGINIA BEACH CITY PUBLIC SCHOOLS CHARTING THE COURSE

### *Department of Teaching & Learning Parent/Student Course Information*

### ***MATHEMATICS 8 (MA 3124) One year***

*Counselors are available to assist parents and students with course selections and career planning. Parents may arrange to meet with the counselor by calling the school's guidance department.*

#### **FOCUS OF MIDDLE SCHOOL MATHEMATICS LEARNING**

- To build on students' concrete reasoning experiences developed in previous grades
- To construct through active learning experiences a more advanced understanding of mathematics
- To develop deep mathematical understandings required for success in abstract learning experiences
- To apply mathematics as a tool in solving real world problems

#### **COURSE DESCRIPTION**

Mathematics 8 is a course for eighth grade students that extends concepts and skills from previous grades and prepares students for the more abstract concepts in algebra. The course focuses on the development of problem-solving skills and the acquisition of mathematical vocabulary and symbols. The active engagement of students along with the use of manipulatives (i.e. number lines, fraction circles, algebra tiles, and two-color counters) and technology, such as Chromebooks and the Desmos calculator, will allow students to develop an understanding of the mathematical principles they are learning. Facility in the use of technology will not be a substitute for students' understanding of quantitative concepts and proficiency in basic computations. During this course students will be: solving problems involving consumer applications; identifying perfect squares and square roots; describing subsets of the real number system; measuring and finding relationships between angles; investigating problems involving surface area and volume of several solid (three-dimensional) figures; applying transformations (translations, reflections, and dilations) to plane figures; constructing three-dimensional figures; applying the Pythagorean Theorem to problem solving; exploring the probability of independent and dependent events; and exploring algebraic concepts such as creating multiple representations of relationships in data, evaluating algebraic expressions; solving and graphing multistep linear equations and inequalities; and determining the independent and dependent variables of a function.

#### **PREREQUISITE**

Mathematics 7

#### **OPTIONS FOR NEXT COURSE**

Algebra I Part 1 or Algebra I Honors

#### **REQUIRED TEXTBOOK**

There is no textbook. Mathspace is the adopted digital resource for this course.

#### **RECOMMENDED CALCULATOR**

TI-30Xa SEVA or use Desmos online calculator

**Virginia Standards of Learning**  
**Mathematics 8 – MA 3124**

Please follow the link below to view the standards for Math 8 on the Virginia Department of Education website.

[Math 8](#)

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Produced by the Department of Teaching and Learning.  
For further information, please call (757) 263-1070.

#### Notice of Non-Discrimination Policy

Virginia Beach City Public Schools does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation/gender identity, pregnancy, childbirth or related medical condition, disability, marital status, age, genetic information or veteran status in its programs, activities, employment, or enrollment, and provides equal access to the Boy Scouts and other designated youth groups. School Board policies and regulations (including, but not limited to, Policies 2-33, 4-4, 5-7, 5-19, 5-20, 5-44, 6-33, 6-7, 7-48, 7-49, 7-57 and Regulations 4-4.1, 4-4.2, 5-44.1, 7-11.1, 7-17.1 and 7-57.1) provide equal access to courses, programs, enrollment, counseling services, physical education and athletic, vocational education, instructional materials, extracurricular activities and employment.

Title IX Notice: Complaints or concerns regarding discrimination on the basis of sex or sexual harassment should be addressed to the Title IX Coordinator, at the VBCPS Office of Student Leadership, 641 Carriage Hill Road, Suite 200, Virginia Beach, 23452, (757) 263-2020, [Mary.Dees@vbschools.com](mailto:Mary.Dees@vbschools.com) (student complaints) or the VBCPS Department of School Leadership, 2512 George Mason Drive, Municipal Center, Building 6, Virginia Beach, Virginia, 23456 (757) 263-1088, [Elizabeth.Bryant@vbschools.com](mailto:Elizabeth.Bryant@vbschools.com) (employee complaints). Additional information regarding Virginia Beach City Public Schools' policies regarding discrimination on the basis of sex and sexual harassment, as well as the procedures for filing a formal complaint and related grievance processes, can be found in School Board Policy 5-44 and School Board Regulations 5-44.1 (students), School Board Policy 4-4 and School Board Regulation 4-4.3 (employees), and on the School Division's website at [Diversity, Equity and Inclusion/Title IX](#). Concerns about the application of Section 504 of the Rehabilitation Act should be addressed to the Section 504 Coordinator/Executive Director of Student Support Services at (757) 263-1980, 2512 George Mason Drive, Virginia Beach, Virginia, 23456 or the Section 504 Coordinator at the student's school. For students who are eligible or suspected of being eligible for special education or related services under IDEA, please contact the Office of Programs for Exceptional Children at (757) 263-2400, Plaza Annex/Family and Community Engagement Center, 641 Carriage Hill Road, Suite 200, Virginia Beach, VA 23452.

The School Division is committed to providing educational environments that are free of discrimination, harassment, and bullying.

Students, staff, parents/guardians who have concerns about discrimination, harassment, or bullying should contact the school administration at their school. Promptly reporting concerns will allow the school to take appropriate actions to investigate and resolve issues. School Board Policy 5-7 addresses non-discrimination and anti-harassment, Policy 5-44 addresses sexual harassment and discrimination based on sex or gender. Policy 5-36 and its supporting regulations address other forms of harassment.

Alternative formats of this publication which may include taped, Braille, or large print materials are available upon request for individuals with disabilities. Call or write the Department of Teaching and Learning, Virginia Beach City Public Schools, 2512 George Mason Drive, P.O. Box 6038, Virginia Beach, VA 23456-0038. Telephone 263-1070 (voice); fax 263-1424; 263-1240 (TDD) or email her at [Dena.McElligott@vbschools.com](mailto:Dena.McElligott@vbschools.com).

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