

8th Grade Math Syllabus

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Chincoteague Combined School

Grade Level: 8

Subject: Mathematics 8

Objective: The eighth-grade standards continue to build on the concepts needed for success in high school level algebra, geometry, and statistics. Students will explore real numbers and the subsets of the real number system. Proportional reasoning is expounded upon as students solve a variety of problems. Students find the volume and surface area of more complex three-dimensional figures and apply transformations to geometric shapes in the coordinate plane. Students will verify and apply the Pythagorean Theorem creating a foundation for further study of triangular relationships in geometry. Students will represent data, both univariate and bivariate data, and make predictions by observing data patterns. Students build upon the algebraic concepts developed in the standards for grades six and seven mathematics, which include simplifying algebraic expressions, solving multistep equations and inequalities, and graphing linear functions. The grade eight standards are vital to providing a solid foundation in Algebra I for students in middle school mathematics. The use of appropriate technology and the interpretation of the results from applying technology tools must be an integral part of teaching, learning, and assessment. While learning mathematics, students will be actively engaged, using concrete materials and appropriate technologies to facilitate problem solving. However, facility in the use of technology shall not be regarded as a substitute for a student's understanding of quantitative and algebraic concepts or for proficiency in basic computations. The acquisition of specialized mathematical vocabulary and language is crucial to a student's understanding and appreciation of the subject and fosters confidence in mathematics communication and problem solving. Problem solving is integrated throughout the content strands. The development of problem-solving skills is a major goal of the mathematics program at every grade level. The development of skills and problem solving strategies must be integrated early and continuously into each student's mathematics education

Materials:

- Charged Chromebook every day
- Notebook
- Glue stick
- **Will need a flashcard every day**

Grading Scale: The county-wide scale will be used.

- Test 40%
- Quizzes & Projects 30%
- Classwork 20%
- Homework 10%

Attendance Policy: Make-up work is to be completed according to Accomack county policy. Students are given one day to make up work for every day missed from class. For example if you miss three days of class, you are given three days to make up the work. After the time has been given to make up the work, that assignment turns into a "0" until handed in.

Plagiarism Statement: Plagiarism and cheating will receive an automatic zero and will be subject to disciplinary actions

8th Grade Math Syllabus

Class Rules/Expectations

- All handbook rules will be enforced. Please read your handbook.

1. Respect yourself, the teacher & others

- Show respect for the teacher, yourself and others at all times.
- Respect others' property. Avoid touching or writing on anything that does not belong to you (including desks, textbooks, teacher's belongings, walls, chalkboard, etc.). Don't expect that others will clean-up your messes. Please pick-up after yourself.
- Respect yourself and the rest of us by using appropriate language and wearing appropriate clothing.
- Be a kind person.

2. Follow directions when given

- When directions are given, do your best to follow them the first time. If you are confused or have questions, ask. I would rather have you stop class to clarify than be off task while everyone else is working.

3. Arrive to class on time & ready to learn

- When you enter the class you should go directly to your assigned seat.
- You should immediately begin on the warm up activity.
- Be "physically" and "mentally" present in the classroom

4. Do not leave class without permission

- Once you enter my class you are my responsibility so you must ask permission before leaving the class.
- You may only go to your locker, get a drink, or use the bathroom one time during a period.
- Bathroom passes will be given as requested and take it with you when leaving the class.

5. Stay in your seat and raise your hand

- No speaking when Mr. Dowling is speaking.

8th Grade Math Syllabus

- You may not get out of your seat without raising your hand quietly and asking.
- Do not call out or distract others.
- If you need to leave the room, quietly raise your hand and ask. (DO NOT ASK DURING INSTRUCTION)

6. Do your best work & turn it in on time

- Remember that the work that you turn-in is a reflection of your effort on the assignment. Think about the following expectations when you are preparing an assignment that I will review:
 - Write your full name, date, and period on all assignments.
 - All work must be neatly done and legible in order to receive credit. If you print, capitalize properly (do not write using all capital letters).

7. Pay attention, participate and ask questions

- Engage in what is going on in the classroom. If you have a question, ask it! Otherwise, I might not know until the test that you didn't understand something. There are no stupid questions, and chances are, if you are wondering about it, someone else in the class is too. Be proactive about your learning and don't be afraid to ask for help. If you feel most comfortable waiting until after class, that is okay, too, but do keep communication open between us.

8. Preserve a positive learning environment

- Student actions that interfere with teaching or learning in the classroom will NOT be tolerated.
- Use class time to learn math. Please do not spend your time grooming, sleeping, talking, or doing work for other classes.
- Minimize classroom interruptions by arriving to class on time and not leaving the classroom during the period.

9. Take responsibility for your actions

- If you are confronted about a rule infraction, own up to it. Don't deny it, lie about it, or blame someone else.
- Take responsibility for missed assignments.

8th Grade Math Syllabus

Parent/Guardian Signature: _____ **Date:** _____

Student Signature: _____ **Date:** _____