

Math 8 Syllabus 2018-2019

Academic standards, chosen by the Tennessee State Board of Education, provide a common set of expectations for what students should know and be able to do at the end of a specific grade or course. Local school districts determine the order in which these state-mandated standards are addressed in their schools. For a breakdown of standard pacing and course objectives for Math 8 students in the Clarksville Montgomery County School System, please visit the Curriculum Navigator on the CMCSS homepage found at: <http://curriculum.cmcss.net/public/index.aspx>

It is the policy of the Clarksville Montgomery County School System to follow the dictates of state statutes in the selection and use of all instructional materials. Parents or legal guardians may request to review any instructional materials used in the classroom of the parent or legal guardian's child following the guideline set forth in Instructional Policy INS-A073 found at: <http://www.cmcss.net/departments/instruction/departmentforms.aspx>

The chart below outlines the units of study for Math 8 and possible major assignments or field trips that could be used to enhance student learning or solidify mastery of standards in each unit. This chart is not inclusive of every assignment for Math 8, as additional or different assignments may be created based on the needs of students. Specific details for major assignments will be shared with students and parents or legal guardians as the standards related to the assignments are addressed in class.

Standards for Mathematical Practice:

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Unit	Topic	Possible Major Assignments	Possible Field Trips
1	Solving Equations	(3) Math Tasks MPS: 1, 2, 3, 6, 7, 8	
2	Introduction to Functions	(2) Math Tasks MPS: 2, 3, 8	
3	Linear Functions	Slope Project MPS: 3, 4, 6, 7, 8	

4	Bivariate Data Analysis	Grizzly Project MPS: 4, 5, 8	
5	System of Equations	Vacation/Cell Phone Project MPS: 1, 3,6, 8	
6	Rational and Irrational Numbers	(2) Math Tasks MPS: 1, 2, 3, 8	
7	Exponents and Scientific Notation	Scientific Notation Space Project MPS: 1, 3, 6, 7, 8	
8	Pythagorean Theorem	Amusement Park Project MPS: 1, 2, 3, 4, 5, 6, 8	
9	Congruence and Similarity through Transformations	Transformation Project MPS: 2, 4, 6	
10	Angle Relationships	Angle Relationships Road Map Project MPS: 4, 5, 6, 8	
11	Volume of Cones, Spheres and Cylinders	Vase Project MPS: 1, 2, 3, 6, 8	
	TNReady to Algebra I		
12	Transition to Algebra I Grade 9	Math Tasks MPS: 1, 2, 3, 4, 7, 8	