

FSSD Syllabus for Mathematics FMS

Freedom Middle School

8th Grade

Instructional pacing guides for English Language Arts, Mathematics, Science, and Social Studies are available online at the FSSD website, which conveys detailed information by quarter. Please access these instructional resources at fssd.org/teacher-information/curriculum/

1st Quarter

Standards/Objectives: {http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf}

8.G.A.1a, 8.G.A.1b, 8.G.A.1c, 8.G.A.2, 8.G.A.3, 8.G.A.4, 8.EE.A.1, 8.EE.A.2, 8.NS.A.1, 8.NS.A.2, 8.G.B.6, 8.G.B.7, 8.G.B.8

Topics covered:

- Understand Properties of Transformations
- Transformations and Congruence
- Transformations and Similarity
- Properties of Integer Exponents
- Squares Roots and Cube Roots
- Understand Rational and Irrational Numbers
- Understand the Pythagorean Theorem
- Solve Problems Using the Pythagorean Theorem
- Distance in the Coordinate Plane

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments

Field trips (if applicable): N/A

2nd Quarter

Standards/Objectives: {http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf}

8.EE.C.7a, 8.EE.C.7b, 8.EE.A.3, 8.EE.A.4, 8.G.C.9, 8.G.A.5

Topics covered:

- Solve Linear Equations with Rational Coefficients
- Solutions of Linear Equations
- Scientific Notation
- Operations and Scientific Notation
- Understand Volume of Cylinders, Cones, and Spheres
- Solve Problems with Cylinders, Cones, and Spheres
- Understand Angle Relationships
- Understand Angle Relationships in Triangles

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments

Field trips (if applicable):N/A

3rd Quarter

Standards/Objectives: {http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf}

8.F.A.1, 8.F.A.2, 8.F.A.3, 8.F.B.4, 8.F.B.5, 8.EE.B.5, 8.EE.B.6

Topics covered:

- Understand Functions
- Compare Functions
- Understand Linear Functions
- Analyze Linear Functions
- Graphs of Functional Relationships
- Represent Proportional Relationships
- Understand the Slope-Intercept Equation for a Line

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments

Field trips (if applicable):N/A

4th Quarter

Standards/Objectives: {http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf}

8.EE.C.8a, 8.EE.C.8b, 8.EE.C.8c, 8.SP.A.1, 8.SP.A.2, 8.SP.A.3, 8.SP.A.4

Topics covered:

- Understand Systems of Equations
- Solve Systems of Equations Algebraically
- Solve Problems Using Systems of Equations
- Scatter Plots
- Scatter Plots and Linear Models
- Solve Problems with Linear Models
- Categorical Data in Frequency Tables

Major assignments:

- 1) Lesson Assessments
- 2) Unit Assessments

Field trips (if applicable): N/A

*For students who have IEPs, please refer to their specific goals.

Procedures for Parental Access for Instructional Materials:

1) Many instructional materials can be accessed digitally via the FSSD website (fssd.org) using your student's unique username and password.

- a. [Student Resources](#): FSSD website > Parents & Students > Parent Information > Online Resources > Student
- b. [Parent Resources](#): FSSD website > Parents & Students > Parent Information > Online Resources > Parent

2) If additional information is needed regarding instructional materials, a written request may be submitted to your child's teacher. Instructional material review is included in [Board Policy 4.400](#).