

# FSSD Syllabus for Mathematics PGM

Poplar Grove Middle School

7th Grade HONORS

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/](http://fssd.org/teacher-information/curriculum/)

*This course differs from a traditional 7th Grade mathematics course in that it builds from the 6th grade and blends in content from 8th grade. While coherence is retained, this course demands a faster pace for instruction and learning. The Mathematical Practice Standards apply throughout each lesson and work together with the content standards to prescribe that students experience mathematics in a coherent, useful, and logical way that increases their ability to solve problems and make sense of mathematics.*

## 1<sup>st</sup> Quarter

Standards/Objectives:

{7th grade: [http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_7.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_7.pdf)}

{8th grade: [http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_8.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf)}

7.NS.A.1a, 7.NS.A.1b, 7.NS.A.1c, 7.NS.A.1d, 7.NS.A.2a, 7.NS.A.2b, 7.NS.A.2c, 7.NS.A.2d, 7.NS.A.3, 8.NS.A.1, 7.RP.A.1, 7.RP.A.2a, 7.RP.A.2c, 7.RP.A.2d, 7.RP.A.3, 7.RP.A.2b, 8.NS.A.2, 8.EE.A.1, 8.EE.A.2, 8.EE.A.3, 8.EE.A.4, 8.EE.B.5,

Topics covered:

- Addition of Positive & Negative Integers
- Subtraction of Positive & Negative Integers
- Multiplication and Division of Positive & Negative Integers
- Terminating and Repeating Decimals
- Multiply and Divide Rational Numbers
- Add and Subtract Rational Numbers
- Solve Problems with Rational Numbers
- Properties of Integers Exponents
- Square Roots and Cube Exponents
- Rational and Irrational Numbers
- Scientific Notation
- Operations and Scientific Notation
- Ratios Involving Complex Fractions
- Understand Proportional Relationships
- Equations for Proportional Relationships
- Problem Solving with Proportional Relationships

Major assignments:

- 1) Unit Benchmark Assessment
- 2) Lesson Assessments

Field trips (if applicable):N/A

## 2<sup>nd</sup> Quarter

Standards/Objectives:

{7th grade:[http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_7.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_7.pdf)}

{8th grade:[http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_8.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf)}

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

Topics covered:

- Equivalent Linear Expressions
- Writing Linear Expressions
- Solve Problems with Equations
- Solve Problems with Inequalities
- Slope-Intercept Equation for a Line
- Solve Linear Equations with Rational Coefficients
- Solutions of Linear Equations
- Systems of Equations Algebraically
- Solve Problems Using Systems of Equations

Major assignments:

- 1) Unit Benchmark Assessment
- 2) Lesson Assessments
- 3) Mid-Term Course Exam

Field trips (if applicable):N/A

## 3<sup>rd</sup> Quarter

Standards/Objectives:

{7th grade:[http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_7.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_7.pdf)}

{8th grade:[http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_8.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf)}

7.SP.A.1, 7.SP.A.2, 7.SP.B.3, 7.SP.B.4, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7a, 7.SP.C.7b, 7.G.A.2, 7.G.B.5, 8.EE.C.8a, 8.EE.C.8b, 8.EE.C.8c, 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.G.A.5

Topics covered:

- Problem Solving with Angles
- Understand Conditions for Drawing Triangles
- Random Samples
- Making Statistical Inferences
- Probability Concepts
- Experimental Probability
- Probability Models
- Understand Properties of Transformations
- Transformations and Congruence
- Transformations and Similarity
- Understand Angle Relationships in Triangles

Major assignments:

- 1) Unit Benchmark Assessment
- 2) Lesson Assessments

Field trips (if applicable):N/A

## 4<sup>th</sup> Quarter

Standards/Objectives:

{7th grade:[http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_7.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_7.pdf)}

{8th grade:[http://tn.gov/assets/entities/education/attachments/std\\_math\\_gr\\_8.pdf](http://tn.gov/assets/entities/education/attachments/std_math_gr_8.pdf)}

7.G.A.1, 7.G.B.4, 7.G.B.6, 8.G.B.6, 8.G.B.7, 8.G.B.8, 8.G.C.9

Topics covered:

- Pythagorean Theorem
- Solve Problems Using the Pythagorean Theorem
- Distance in the Coordinate Plane
- Area of Composed Figures

- Area and Circumference of a Circle
- Scale Drawings
- Volumes of Solids
- Surface Area of Solids
- Understand Volume of Cylinders, Cones, and Spheres
- Solve Problems with Cylinders, Cones, and Spheres

Major assignments:

- 1) Unit Benchmark Assessment
- 2) Lesson Assessments
- 3) Final Course Exam

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](http://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](#).