

WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Advanced Math 7

Course Number: 00205

Course Prerequisites: Completion of Mathematics Grade 6 with at least an 85% average in class. In addition, students must meet district required benchmarks on two Placement Tests.

Course Description: In the course, Advanced Mathematics 7, students' learning will be focused on the major topics: The Number System, Expressions & Equations, Functions, Exponents, Ratio & Proportional Relationships, Probability, Geometry and Data Analysis. The pace and rigor of this course will establish the path to reach advanced mathematics in high school. Students will take the Grade 7 PSSA Math Exam. District marking period assessments are required.

Suggested Grade Level: Grade 7

Length of Course: Two Semesters

Units of Credit: 1

PDE Certification and Staffing Policies and Guidelines (CSPG) Required Teacher Certifications:

CSPG #50 Mathematics (7-12), CSPG #53 Middle Level Mathematics (6-9),

CSPG #70 Grades 4 – 8 (All subjects 4-6, Mathematics 7-8)

To find the CSPG information, go to [CSPG](#)

Certification verified by the WCSD Human Resources Department: ☒ Yes ☐ No

WCSD STUDENT DATA SYSTEM INFORMATION

Course Level: Academic

Mark Types: Check all that apply.

☒ F – Final Average ☒ MP – Marking Period ☒ EXM – Final Exam

GPA Type: ☐ GPAEL-GPA Elementary ☒ GPAML-GPA for Middle Level ☐ NHS-National Honor Society

☐ UGPA-Non-Weighted Grade Point Average ☐ GPA-Weighted Grade Point Average

State Course Code: 02051

To find the State Course Code, go to [State Course Code](#), download the Excel file for SCED, click on SCED 6.0 tab, and choose the correct code that corresponds with the course.

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TEXTBOOKS AND SUPPLEMENTAL MATERIALS

Board Approved Textbooks, Software, and Materials:

Title: *Modeling Real Life Common Core – Grade 7 Advanced*
Publisher: Cengage Learning – Big Ideas Math
ISBN #: 978-1-64245-229-7
Copyright Date: 2019
WCSD Board Approval Date: 6/29/2020

Supplemental Materials: *enVisionmath 2.0 Grade 7 SAVVAS Learning Company LLC. 2017,*
enVisionmath 2.0 Grade 8 SAVVAS Learning Company LLC. 2017
Kuta Software, Get More Math, SAS pdesas.org, Brainfuse, IXL,
Calculator: TI-30XIIS, Online Calculator: DESMOS

Curriculum Document

WCSD Board Approval:

Date Finalized: 5/22/2023
Date Approved: 6/12/2023
Implementation Year: 2023-2024

SPECIAL EDUCATION, 504, and GIFTED REQUIREMENTS

The teacher shall make appropriate modifications to instruction and assessment based on a student's Individual Education Plan (IEP), Chapter 15 Section 504 Plan (504), and/or Gifted Individual Education Plan (GIEP).

SCOPE AND SEQUENCE OF CONTENT, AND CONCEPTS

Marking Period 1: The Number System and Expressions, Equations and Inequalities, and Graphs of Linear Equations

- Integers and Rational Numbers
- Algebraic and Equivalent Expressions
- Operations with Expressions
 - Expansion and Factorization
 - Sum and Difference
 - Application
- Equations
 - Simple Equations
 - Multi-Step Equations
 - Equations with Variables on Both Sides
- Inequalities
 - One-Step Inequalities and Graphing
 - Multi-Step Inequalities and Graphing
- Graphs of Linear Equations
- Slope of a Line
- Graphs of Proportional Relationships
- **Marking Period 1 Review and Assessment**

Marking Period 2: Forms of Linear Equations, Systems of Linear Equations, Ratios and Proportional Relationships, and Relations and Functions

- Linear Equations
 - Slope-Intercept Form
 - Equations in Point-Slope Form
- System of Linear Equations
 - Graphs
 - Substitution
 - Elimination
 - Special Systems
- Ratios, Rates, and Unit Rates
- Proportional Relationships
- Graphs of Proportional Relationships
- Percent Proportion
- Percent Equation
- Relations and Functions
- Representations of Functions
- **Marking Period 2 Review and Assessment**

Marking Period 3: Linear Function, Statistics, Probability, and Geometry

- Linear Functions
- Comparison of Linear and Nonlinear Functions
- Analysis and Sketches of Graphs
- Populations and Random Samples
- Inferences:
 - From Data
 - Comparative
- Probability:
 - Likelihood
 - Theoretical and Experimental
 - Models
 - Compound Events
- Geometric Figures and Their Properties
- Angle Properties and Their Measures
- Parallel Lines and Transversals
- Circles
- Surface Area
- **Marking Period 3 Review and Assessment**

Marking Period 4: Geometry: Volume, Grade 7 Math PSSA Preparation and Assessment, Exponents and Scientific Notation, Real Numbers and the Pythagorean Theorem, Geometry: Surface Area and Volume, Geometry: Transformations and Mathematics Placement Exam for Algebra 1 Honors Grade 8

- Surface Area
- Volume
- **Grade 7 PSSA Math Preparation and Assessment**
- Exponents
 - Exponent Properties
 - Product of Powers Property
 - Quotient of Powers Property
 - Zero and Negative Exponents

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PLANNED INSTRUCTION

- Estimation of Quantities
- Scientific Notation
- Operations in Scientific Notation
- Square Roots
- The Pythagorean Theorem
- Cube Roots
- Rational and Irrational Numbers
- The Converse of the Pythagorean Theorem
- Volume:
 - Cylinders
 - Cones
 - Spheres
- Similar Solids: Surface Area and Volume
- Translations
- Reflections
- Rotations
- **Mathematics Placement Exam for Algebra 1 Honors Grade 8**
- **Marking Period 4 Review and Assessment**

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PLANNED INSTRUCTION

Standards/Eligible Content and Skills

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Add, subtract, multiply, and divide integers	M07.A-N.1.1.1	MP1
Add, subtract, multiply, and divide rational numbers, including real-world contexts	M07.A-N.1.1.1 M07.A-N.1.1.3	MP1
Represent addition and subtraction of rational numbers on a horizontal or vertical number line	M07.A-N.1.1.2	MP1
Solve real-world and mathematical problems involving the four operations with rational numbers; determine the reasonableness of the answer(s)	M07.A-N.1.1 M07.B-E.2.3.1	MP1
Use the order of operations to generate equivalent expressions	M07.B-E.1.1.1	MP1
Apply the properties of operations to adding, subtracting, factoring, and expansion to linear expressions with rational coefficients	M07.B-E.1.1.1	MP1
Solve equations using addition and subtraction with rational numbers	M07.B-E.2.1 M07.B-E.2.1.1	MP1
Solve equations using multiplication and division with rational numbers	M07.B-E.2.1 M07.B-E.2.1.1	MP1
Use one-step simple equations to solve real-world and mathematical problems with rational numbers; determine the reasonableness of the answer(s)	M07.B-E.2.2 M07.B-E.2.2.1 M07.B-E.2.3.1	MP1
Identify the solution of an equation	M07.B-E.2.3.1	MP1
Solve a two-step equation with rational numbers	M07.B-E.2.1	MP1
Solve a multi-step equation with rational numbers	M07.B-E.2.1	MP1
Solve multi-step real-world and mathematical problems	M07.B-E.2.2 M07.B-E.2.2.1 M07.B-E.2.3.1	MP1
Use the Distributive Property to solve an equation with rational numbers	M07.B-E.2.1 M08.B-E.3.1.2	MP1
Solve an equation with variables on both sides	M07.B-E.2.1 M08.B-E.3.1.2	MP1
Use the Distributive Property to solve equations with variables on both sides	M07.B-E.2.1 M08.B-E.3.1.2	MP1
Solve an equation with no solution or infinitely many solutions	M07.B-E.2.3.1 M08.B-E.3.1.1	MP1
Write and solve real-world and mathematical problems involving equations; determine the reasonableness of the answer(s)	M07.B-E.2.2 M07.B-E.2.1.1 M07.B-E.2.3.1	MP1
Review: Solve one-step inequalities	M07.B-E.2.2.1	MP1
Solve two-step inequalities	M07.B-E.2.2.1 CC.2.2.HS.D.10	MP1
Write and solve real-world and mathematical problems involving multi-step inequalities; determine the reasonableness of the answer(s)	M07.B-E.2.2 M07.B-E.2.2.2 M07.B-E.2.3.1	MP1
Graph inequalities on number lines	M07.B-E.2.2.2 CC.2.2.HS.D.10	MP1

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PLANNED INSTRUCTION		
Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Graph linear equations using tables	M08.B-E.3.1 M08.B-E.3.1.1	MP1
Graph horizontal lines and vertical lines	M08.B-E.3.1 M08.B-E.3.1.1	MP1
Find the slopes of lines	M08.B-E.2.1 M08.B-E.2.1.1 M08.B-E.3.1 M08.B-E.3.1.1	MP1
Find the slopes of horizontal lines and vertical lines	M08.B-E.2.1 M08.B-E.2.1.1 M08.B-E.3.1 M08.B-E.3.1.1	MP1
Identify parallel lines	M08.B-E.2.1 M08.B-F.2.1.1 M08.B-E.3.1 M08.B-E.3.1.1	MP1
Graph proportional relationships	M08.B-E.3.1 M08.B-E.2.1.1 CC.2.2.8.B.2	MP1
Write and use an equation that represents a proportional situation	M08.B-E.3.1 M08.B-E.2.1.1 CC.2.2.8.B.2	MP1
Marking Period 1 Review and Assessment		MP1
<ul style="list-style-type: none"> Review and demonstrate knowledge of The Number System and Expressions 		MP1
<ul style="list-style-type: none"> Review and demonstrate knowledge of Equations and Inequalities 		MP1
<ul style="list-style-type: none"> Review and demonstrate knowledge of Graphs of Linear Equations 		MP1
Identify slopes and y-intercepts	M08.B-E.2.1.3 M08.B-E.3.1	MP2
Graph a linear equation in slope-intercept form	M08.B-E.2.1.3 M08.B-E.3.1	MP2
Graph a linear equation using intercepts	M08.B-E.2.1.3 M08.B-E.3.1	MP2
Write equations in slope-intercept form	M08.B-E.2.1.3 M08.B-E.3.1	MP2
Write an equation from a graph and/or table (two points)	M08.B-E.2.1.3 M08.B-E.3.1	MP2
Write an equation using a slope and a point	M08.B-E.2.1.3 M08.B-E.3.1	MP2
Solve and check a system of linear equations by graphing	M08.B-E.3.1 M08.D-S.3.1.3 M08.D-S.3.1.4 M07.B-E.2.3.1	MP2

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Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Solve and check a system of linear equations by substitution	M08.B-E.3.1 M08.D-S.3.1.3 M08.D-S.3.1.4 M07.B-E.2.3.1	MP2
Solve and check a system of linear equations by elimination	M08.B-E.3.1 M08.D-S.3.1.3 M08.D-S.3.1.4 M07.B-E.2.3.1	MP2
Solve and check systems of linear equations with no solutions and infinitely many solutions	M08.B-E.3.1 M08.D-S.3.1.4 M07.B-E.2.3.1	MP2
Solve real-world and mathematical problems leading to two linear equations in two variables; determine the reasonableness of the answer(s)	M08.B-E.3.1 M08.B-E.3.1.5 M07.B-E.2.3.1	MP2
Analyze, recognize, and represent proportional relationships and use them to solve real-world and mathematical problems; determine the reasonableness of the answer(s)	M07.A-R.1.1 M07.B-E.2.3.1	MP2
Compute unit rates associated with ratios of fractions, including ratio lengths, areas, and other quantities measured in like or different units	M07.A-R.1.1.1	MP2
Determine whether two quantities are proportionally related	M07.A-R.1.1.2	MP2
Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships	M07.A-R.1.1.3	MP2
Represent proportional relationships by equations	M07.A-R.1.1.4	MP2
Explain what a point (x, y) on the graph of a proportional relationship means in terms of the situation, with special attention to the points (0, 0) and (1, r), where r is the unit rate	M07.A-R.1.1.5	MP2
Use proportional relationships to solve multi-step ratio problems	M07.A-R.1.1.6	MP2
Solve real world and mathematical multi-step ratio problems applying proportional relationships: Examples: Simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease.	M07.A-R.1.1.6	MP2
Represent and solve percent problems using the percent equation	M07.A-R.1.1.6	MP2
Solve real world and mathematical problems using the percent proportion and percent equation: Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease.	M07.A-R.1.1.5 M07.A-R.1.1.6	MP2
Solve real-world and mathematical proportion problems: Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease.	M07.A-R.1.1.2 M07.A-R.1.1.3 M07.A-R.1.1.4	MP2
Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships	M07.A-R.1.1.3	MP2

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PLANNED INSTRUCTION

Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Solve real-world and mathematical problems involving rate and unit rate; examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease.	M07.A-R.1.1.1	MP2
List ordered pairs of relations	M08.B-F.1.1.1	MP2
Determine whether relations are functions	M08.B-F.1.1.1	MP2
Write functions rules	M08.B-F.1.1.1	MP2
Evaluate functions	M08.B-F.1.1.1	MP2
Graph functions	M08.B-F.1.1.1	MP2
Marking Period 2 Review and Assessment		MP2
<ul style="list-style-type: none"> Review and demonstrate knowledge of Forms of Linear Equations 		MP2
<ul style="list-style-type: none"> Review and demonstrate knowledge of Systems of Linear Equations 		MP2
<ul style="list-style-type: none"> Review and demonstrate knowledge of Ratios and Proportional Relationships 		MP2
<ul style="list-style-type: none"> Review and demonstrate knowledge of Relations and Functions 		MP2
Write a linear function using a graph	M08.B-F.2.1.1	MP3
Write a linear function using a table	M08.B-F.2.1.1	MP3
Interpret a linear function	M08.B-F.1.1.3	MP3
Identify functions from tables	M08.B-F.1.1.1	MP3
Identify functions from equations	M08.B-F.1.1.1	MP3
Identify functions from graphs	M08.B-F.1.1.1	MP3
Analyze graphs	M08.B-F.1.1.2	MP3
Sketch graphs	M08.B-F.1.1.2	MP3
Determine whether a sample is a random sample given real-world and mathematical problems	M07.D-S.1.1.1	MP3
Use data from a random sample to draw inferences about a population with an unknown characteristic of interest	M07.D-S.1.1.2	MP3
Compare two numerical data distributions using measure of center and variability	M07.D-S.2.1.1	MP3
Predict or determine whether some outcomes are certain, more likely, less likely, or impossible	M07.D-S.3.1.1	MP3
Use probability to predict outcomes; determine the probability of a chance event given relative frequency; predict the approximate relative frequency given the probability	M07.D-S.3.2.1	MP3
Find the theoretical probability of an event	M07.D-S.3.2.1 M07.D-S.3.2.2	MP3
Find the experimental probability of an event	M07.D-S.3.2.1 M07.D-S.3.2.2	MP3
Find the probability of a simple event, including the probability of a simple event NOT occurring	M07.D-S.3.2.2	MP3

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Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Find probabilities of independent compound events using organized lists, tables, tree diagrams, and simulation	M07.D-S.3.2.3	MP3
Use the Fundamental Counting Principal to determine the number of outcomes in real-world and mathematical problems	M07.D-S.3.2	MP3
Solve real-world and mathematical problems involving scale drawings or geometric figures; determine the reasonableness of the answer(s)	M07.C-G.1.1.1 CC.2.3.7.A.2 M07.B-E.2.3.1	MP3
Solve real-world and mathematical problems finding length and area of geometric figures; determine the reasonableness of the answer(s)	M07.C-G.1.1.1 CC.2.3.7.A.2 M07.B-E.2.3.1	MP3
Identify or describe the properties of all types of triangles based on angle and side measures	M07.C-G.1.1.2 CC.2.3.7.A.2	MP3
Use and apply the Triangle Inequality Theorem	M07.C-G.1.1.3	MP3
Describe two-dimensional figures that result from slicing three-dimensional figures	M07.C-G.1.1.4 CC.2.3.7.A.2	MP3
Identify and use properties of supplementary, complementary, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure; determine the reasonableness of the answer(s)	M07.C-G.2.1.1 CC.2.3.7.A.1 M07.B-E.2.3.1	MP3
Identify and use properties of angles formed when two parallel lines are cut by a transversal (Alternate Interior, Alternate exterior, Vertical, Corresponding)	M07.C-G.2.1.2 CC.2.3.7.A.1	MP3
Find the area of a circle	M07.C-G.2.2.1 CC.2.3.7.A.1	MP3
Find the circumference of a circle	M07.C-G.2.2.1 CC.2.3.7.A.1	MP3
Solve problems involving area and circumference of circles	M07.C-G.2.2.1 CC.2.3.7.A.1	MP3
Solve real-world and mathematical problems involving the area of two-dimensional figures composed of triangles, quadrilaterals, polygons, and circles; determine the reasonableness of the answer(s)	M07.C-G.2.2.2 CC.2.3.7.A.1 M07.B-E.2.3.1	MP3
Find the surface area of right prisms and cubes	M07.C-G.2.2.2 CC.2.3.7.A.1	MP3
Marking Period 3 Review and Assessment		MP3
• Review and demonstrate knowledge of Linear Functions		MP3
• Review and demonstrate knowledge of Statistics		MP3
• Review and demonstrate knowledge of Probability		MP3
• Review and demonstrate knowledge of Geometry		MP3
Find the surface area of right prisms and cubes	M07.C-G.2.2.2 CC.2.3.7.A.1	MP4
Find the volume of right prisms and cubes	M07.C-G.2.2.2 CC.2.3.7.A.1	MP4
Solve real-world and mathematical problems involving surface area and volume of three-dimensional objects composed of right prisms and cubes; determine the reasonableness of the answer(s)	M07.C-G.2.2.2 CC.2.3.7.A.1 M07.B-E.2.3.1	MP4

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Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Grade 7 PSSA Math Preparation and Assessment		MP4
<ul style="list-style-type: none"> Review and demonstrate knowledge of The Number System 	M07.A-N.1.1	MP4
<ul style="list-style-type: none"> Review and demonstrate knowledge of Ratios and Proportional Relationships 	M07.A-R.1.1	MP4
<ul style="list-style-type: none"> Review and demonstrate knowledge of Expressions and Equations 	M07.B-E.1.1 M07.B-E.2.1 M07.B-E.2.2 M07.B-E.2.3	MP4
<ul style="list-style-type: none"> Review and demonstrate knowledge of Geometry 	M07.C-G.1.1 M07.C-G.2.1 M07.C-G.2.2	MP4
<ul style="list-style-type: none"> Review and demonstrate knowledge of Statistics and Probability 	M07.D-S.1.1 M07.D-S.2.1 M07.D-S.3.1 M07.D-S.3.2	MP4
Write expressions using exponents	M08.B-E.1.1.1	MP4
Use the order of operations to evaluate numeric expressions containing exponents	M08.B-E.1.1.1	MP4
Multiply powers with the same base	M08.B-E.1.1.1	MP4
Find the power of a power	M08.B-E.1.1.1	MP4
Find the power of a product	M08.B-E.1.1.1	MP4
Divide powers with the same base	M08.B-E.1.1.1	MP4
Simplify an exponential expression	M08.B-E.1.1.1	MP4
Evaluate expressions with negative exponents	M08.B-E.1.1.1	MP4
Approximate a large number	M08.B-E.1.1.3	MP4
Approximate a small number	M08.B-E.1.1.3	MP4
Approximate a quantity	M08.B-E.1.1.3	MP4
Write numbers in scientific notation	M08.B-E.1.1.3	MP4
Write numbers in standard form	M08.B-E.1.1.3	MP4
Perform operations with numbers expressed in scientific notation: addition, subtraction, multiplication, division	M08.B-E.1.1.4	MP4
Find the square roots of perfect squares	M08.B-E.1.1.2	MP4
Evaluate expressions involving square roots	M08.B-E.1.1.2	MP4
Solve equations using square roots	M08.B-E.1.1.2	MP4
Find the side lengths of a right triangle using the Pythagorean Theorem	M08.C-G.2.1.2 CC.2.3.8.A.3	MP4
Find the lengths of three-dimensional figures using the Pythagorean Theorem	M08.C-G.2.1.2 CC.2.3.8.A.3	MP4
Apply the Pythagorean Theorem to find the distance between two points in a coordinate plane	M08.C-G.2.1.3 CC.2.3.8.A.3	MP4
Find cube roots	M08.B-E.1.1.2	MP4
Evaluate expressions involving cube roots	M08.B-E.1.1.2	MP4
Solve equations using cube roots	M08.B-E.1.1.2	MP4
Write fractions and mixed numbers as decimals	M08.B-E.1.1.2	MP4

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Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Write a repeating decimal as a fraction	M08.B-E.1.1.2	MP4
Classify real numbers	M08.A-N.1.1.1	MP4
Approximate irrational numbers	M08.A-N.1.1.3	MP4
Compare irrational numbers	M08.A-N.1.1.4	MP4
Locate/identify rational and irrational numbers at their appropriate locations on a number line	M08.A-N.1.1.5	MP4
Use the Converse of the Pythagorean Theorem	M08.C-G.2.1.1 CC.2.3.8.A.3	MP4
Identify right triangles using the Converse of the Pythagorean Theorem	M08.C-G.2.1.1 CC.2.3.8.A.3	MP4
Find the volume, height, and radius of a cylinder	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Solve real-world and mathematical volume problems of cylinders	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Find the volume, radius, and height of a cone	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Solve real-world and mathematical volume problems of cones	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Find the volume and radius of a sphere	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Solve real-world and mathematical problems of spheres	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Identify similar solids (No pyramids)	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Find missing measures in similar solids (No pyramids)	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Find the volume of similar solids (No pyramids)	M08.C-G.2.1.1 CC.2.3.8.A.1	MP4
Identify a translation	M08.C-G.1.1.1 CC.2.3.8.A.2	MP4
Translate a figure in the coordinate plane	M08.C-G.1.1.1 M08.C-G.1.1.3 CC.2.3.8.A.2	MP4
Identify reflections	M08.C-G.1.1.1 CC.2.3.8.A.2	MP4
Reflect figures in the coordinate plane	M08.C-G.1.1.1 M08.C-G.1.1.3 CC.2.3.8.A.2	MP4
Identify a rotation	M08.C-G.1.1.1 CC.2.3.8.A.2	MP4
Rotate a figure in the coordinate plane	M08.C-G.1.1.1 M08.C-G.1.1.3 CC.2.3.8.A.2	MP4
Use more than one transformation: translation, reflections, rotation	M08.C-G.1.1.2 CC.2.3.8.A.2	MP4
Mathematics Placement Exam for Algebra 1 Honors Grade 8		MP4

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Performance Indicator	PA Core Standard and/or Eligible Content	Marking Period Taught
Marking Period 4 Review and Assessment		MP4
<ul style="list-style-type: none">Review and demonstrate knowledge of Geometry: Surface Area and Volume (7th Grade PSSA)		MP4
<ul style="list-style-type: none">Review and demonstrate knowledge of Exponents and Scientific Notation		MP4
<ul style="list-style-type: none">Review and demonstrate knowledge of Real Numbers and the Pythagorean Theorem		MP4
<ul style="list-style-type: none">Review and demonstrate knowledge of Geometry: Volume		MP4
<ul style="list-style-type: none">Review and demonstrate knowledge of Geometry: Transformations		MP4

ASSESSMENTS

PDE Academic Standards, Assessment Anchors, and Eligible Content: The teacher must be knowledgeable of the PDE Academic Standards, Assessment Anchors, and Eligible Content and incorporate them regularly into planned instruction.

Formative Assessments: The teacher will utilize a variety of assessment methods to conduct in-process evaluations of student learning.

Effective formative assessments for this course include:

Suggested but not limited to:

- Pre-assessments of prior knowledge (e.g., Entrance cards or KWL chart)
- Bellringers/Problems of the Day (PODs)
- Discussions
- Exit ticket
- Teacher observations/Questioning
- Graphic organizers (e.g., Venn Diagrams, word mapping, webbing, KWL chart, etc.)
- Outlining
- Cooperative learning
- Written work
- Quizzes
- Oral response
- Self-evaluation
- Homework
- Summarizing
- Note-taking

Summative Assessments: The teacher will utilize a variety of assessment methods to evaluate student learning at the end of an instructional task, lesson, and/or unit.

Effective summative assessments for this course include:

Suggested but not limited to:

- Performance assessment
- Chapter/unit tests
- Quizzes
- Marking period assessments
- Projects
- Student presentations