

WARREN COUNTY SCHOOL DISTRICT

PLANNED INSTRUCTION

COURSE DESCRIPTION

Course Title: Advanced Mathematics Grade 7

Course Number: 00205

Course Prerequisites: Completion of Mathematics Grade 6 with at least an 85% average in the class as well as results of a placement test.

Course Description: In advanced mathematics grade 7, instruction will focus on these major topics; Ratio and Proportional Relationships, The Number System, Expressions and Equations, Geometry. A final exam is given.

Suggested Grade Level: Grade 7

Length of Course: Two Semesters

Units of Credit: None

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

CSPG #53 Middle Level Mathematics, CSPG#50 Mathematics (7-12) 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 chose 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 #: 9781642452297
Copyright Date: [Click or tap here to enter text.](#)
WCSD Board Approval Date: 6/29/2020

Supplemental Materials: [Click or tap here to enter text.](#)

Curriculum Document

WCSD Board Approval:

Date Finalized: 6/5/2020
Date Approved: 6/29/2020
Implementation Year: 2020-2021

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).

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SCOPE AND SEQUENCE OF CONTENT, CONCEPTS, AND SKILLS

Performance Indicator	PA Core Standard and/or Eligible Content	Month Taught and Assessed for Mastery
Finding Absolute Values of Rational Numbers	7.EE.B.3	Choose an item. September
Comparing Rational Numbers	7.EE.B.3	Choose an item. September
Using Number Lines to Find Sums	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	Choose an item. September
Adding Integers with the same sign	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	Choose an item. September
Adding Integers with different signs	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	Choose an item. September
Adding Rational Numbers	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	September Choose an item.
Using Number Lines to find Differences	7.NS.A.1, 7.NS.A.3, 7.EE.B.3,	Choose an item. September
Subtracting Integers	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	Choose an item. September
Subtracting Rational Numbers	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	Choose an item. September
Using Properties of Addition	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	September Choose an item.
Finding distance on a number line	7.EE.B.3, 7.NS.A.1, 7.NS.A.3,	September Choose an item.
Multiplying Integers	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Evaluating Expressions using multiplication	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Dividing Integers with the same sign	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	September Choose an item.
Dividing integers with different signs	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Evaluating expressions using division	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Writing fractions and mixed numbers as decimals	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Writing a terminating decimal as a fraction	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Multiplying rational numbers	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Using properties to multiply rational numbers	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Dividing Rational numbers	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Evaluating a complex fraction	7.NS.A.2, 7.NS.A.3, 7.EE.B.3	Choose an item. September
Identifying terms and like terms	7.NS.A.3, 7.EE.A.1, 7.EE.A.2, 7.EE.B.3	Choose an item. October
Simplifying algebraic expressions	7.NS.A.3, 7.EE.A.1, 7.EE.A.2, 7.EE.B.3	Choose an item. October

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Adding linear expressions	7.EE.A.1, 7.33.A.2,	October Choose an item.
Subtracting linear expressions	7.EE.A.1, 7.33.A.2,	Choose an item. October
Using the distributive property	7.NS.A.3, 7.EE.A.1, 7.EE.A.2, 7.EE.B.3,	Choose an item. October
Simplifying expressions	7.EE.A.1, 7.EE.A.2	Choose an item. October
Factoring out the GCF	7.EE.A.1, 7.EE.A.2	October November
Factoring out a rational number	7.EE.A.1, 7.EE.A.2	October Choose an item.
Factoring out a negative number	7.EE.A.1, 7.EE.A.2	Choose an item. October
Solve a one-step equation using addition and subtraction	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Writing an equation	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Solve a one-step equation using multiplication and division	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	October Choose an item.
Solving equations using reciprocals	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Solving a two-step equation	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Combining like terms before solving	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Writing an inequality	7.EE.B.4,	Choose an item. October
Checking solutions of an inequality	7.EE.B.4	October Choose an item.
Solving an inequality using addition	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Solving an inequality using subtraction	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Solving an inequality using multiplication	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Solving an inequality using division	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Solving two-step inequalities	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	Choose an item. October
Graphing an inequality	7.NS.A.3, 7.EE.B.3, 7.EE.B.4,	October Choose an item.
Writing and interpreting ratios	7.RP.A.1, 7.RP.A.3, 7.EE.B.3	Choose an item. November
Completing a ratio table	7.RP.A.1, 7.RP.A.3, 7.EE.B.3	November Choose an item.
Finding unit rates	7.RP.A.1, 7.RP.A.2, 7.RP.A.3, 7.EE.B.3	Choose an item. November
Using a unit rate to solve a rate problem	7.RP.A.1, 7.RP.A.2, 7.RP.A.3, 7.EE.B.3	Choose an item. November
Determining whether ratios form a proportion	7.RP.A.1, 7.RP.A.2, 7.RP.A.3,	November Choose an item.
Using cross products	7.RP.A.1, 7.RP.A.2, 7.RP.A.3,	Choose an item. November
Determining whether two quantities are proportional	7.RP.A.1, 7.RP.A.2, 7.RP.A.3,	Choose an item. November

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Solving a proportion using mental math	7.RP.A.3, 7.EE.B.3	Choose an item. November
Solving a proportion using multiplication	7.RP.A.3, 7.EE.B.3	November Choose an item.
Solving a proportion using cross products	7.RP.A.3, 7.EE.B.3	Choose an item. November
Writing and solving a proportion	7.RP.A.3, 7.EE.B.3	November Choose an item.
Writing a proportion	7.RP.A.3, 7.EE.B.3	Choose an item. November
Determining whether two quantities are proportional	7.RP.A.1, 7.RP.A.2, 7.RP.A.3,	November Choose an item.
Finding a unit rate from a graph	7.RP.A.1, 7.RP.A.2, 7.RP.A.3,	November Choose an item.
Finding an actual distance	7.RP.A.3, 7.G.A.1	Choose an item. November
Finding a scale factor	7.RP.A.3, 7.G.A.1	Choose an item. November
Converting between percent and decimal	7.NS.A.2, 7.EE.B.3,	November Choose an item.
Writing fractions a decimal and a percent	7.NS.A.2, 7.EE.B.3,	November Choose an item.
Finding a percent using percent proportion	7.RP.A.3, 7.EE.B.3, 7.EE.B.4	Choose an item. November
Finding a part using percent proportion	7.RP.A.3, 7.EE.B.3, 7.EE.B.4	Choose an item. November
Finding a whole using percent proportion	7.RP.A.3, 7.EE.B.3, 7.EE.B.4	Choose an item. November
Finding a part of a number using percent equation	7.RP.A.3, 7.EE.B.3, 7.EE.B.4	Choose an item. November
Finding a percent using percent equation	7.RP.A.3, 7.EE.B.3, 7.EE.B.4	Choose an item. November
Finding a whole using percent equation	7.RP.A.3, 7.EE.B.3, 7.EE.B.4	Choose an item. November
Finding a percent of increase	7.RP.A.3, 7.EE.A.2, 7.EE.B.3,	December Choose an item.
Finding a percent of decrease	7.RP.A.3, 7.EE.A.2, 7.EE.B.3,	Choose an item. December
Finding percent error	7.RP.A.3, 7.EE.A.2, 7.EE.B.3,	Choose an item. December
Finding a sale price	7.RP.A.3, 7.EE.A.2, 7.EE.B.3, 7.EE.B.4	Choose an item. December
Finding an original price	7.RP.A.3, 7.EE.A.2, 7.EE.B.3, 7.EE.B.4	Choose an item. December
Finding a balance using simple interest formula	7.RP.A.3, 7.EE.A.2, 7.EE.B.3, 7.EE.B.4	December Choose an item.
Finding an annual interest rate using the simple interest formula	7.RP.A.3, 7.EE.A.2, 7.EE.B.3, 7.EE.B.4	Choose an item. December
Finding amount of time using simple interest formula	7.RP.A.3, 7.EE.A.2, 7.EE.B.3, 7.EE.B.4	Choose an item. December
Identifying outcomes	7.EE.B.3, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7,	Choose an item. December
Describing likelihood	7.EE.B.3, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7,	Choose an item. December
Using relative frequencies	7.EE.B.3, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7,	Choose an item. December

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Finding an experimental probability	7.EE.B.3, 7.EE.B.4, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7	Choose an item. December
Finding a theoretical probability	7.EE.B.3, 7.EE.B.4, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7	December Choose an item.
Comparing probabilities	7.EE.B.3, 7.EE.B.4, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7	Choose an item. December
Using an experimental probability	7.EE.B.3, 7.EE.B.4, 7.SP.C.5, 7.SP.C.6, 7.SP.C.7	Choose an item. December
Finding a sample space using a tree diagram	7.EE.B.3, 7.SP.C.5, 7.SP.C.7, 7.SP.C.8	Choose an item. December
Finding the total number of possible outcomes using a table and the fundamental counting principal	7.EE.B.3, 7.SP.C.5, 7.SP.C.7, 7.SP.C.8	Choose an item. December
Finding the probability of a compound event	7.EE.B.3, 7.SP.C.5, 7.SP.C.7, 7.SP.C.8	Choose an item. December
Simulating outcomes that are equally likely	7.EE.B.3, 7.SP.C.5, 7.SP.C.8	Choose an item. December
Simulating outcomes that are NOT equally likely	7.EE.B.3, 7.SP.C.5, 7.SP.C.8	December Choose an item.
Identifying an unbiased sample	7.RP.A.3, 7.SP.A.1, 7.SP.A.2,	Choose an item. January
Determining whether conclusions are valid	7.RP.A.3, 7.SP.A.1, 7.SP.A.2,	Choose an item. January
Using multiple random samples	7.RP.A.3, 7.SP.A.1, 7.SP.A.2,	Choose an item. January
Estimating an average of a population	7.RP.A.3, 7.SP.A.1, 7.SP.A.2,	January Choose an item.
Comparing populations	7.SP.B.3	Choose an item. January
Describing a visual overlap	7.SP.B.3	January Choose an item.
Comparing random samples	7.SP.A.1, 7.SP.A.2, 7.SP.B.4	Choose an item. January
Using multiple random samples	7.SP.A.1, 7.SP.A.2, 7.SP.B.4	January Choose an item.
Finding a radius and diameter	7.EE.B.3, 7.EE.B.4, 7.G.B.4,	Choose an item. January
Finding circumference of circles	7.EE.B.3, 7.EE.B.4, 7.G.B.4,	January Choose an item.
Finding the perimeter or a semi-circular region	7.EE.B.3, 7.EE.B.4, 7.G.B.4,	Choose an item. January
Finding areas of circles	7.EE.A.2, 7.EE.B.3, 7.G.B.4,	Choose an item. January
Finding the area of a semi-circle	7.EE.A.2, 7.EE.B.3, 7.G.B.4,	Choose an item. January
Estimating perimeter and area	7.RP.A.3, 7.EE.B.3, 7.G.B.4, 7.G.B.6	Choose an item. January
Finding perimeter and area	7.RP.A.3, 7.EE.B.3, 7.G.B.4, 7.G.B.6	Choose an item. January
Naming angles	7.EE.B.4, 7.G.B.5,	Choose an item. January
Using pairs of angles	7.EE.B.4, 7.G.B.5	January Choose an item.

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Finding an angle measure	7.EE.B.4, 7.G.B.5	Choose an item. January
Finding the surface area of a rectangular prism	7.EE.B.3, 7.G.B.6,	Choose an item. February
Finding the surface area of a prism	7.EE.B.3, 7.G.B.6	February Choose an item.
Finding the surface area of a cylinder	7.RP.A.3, 7.EE.B.3,	February Choose an item.
Finding the lateral surface area of a cylinder	7.RP.A.3, 7.EE.B.3	February February
Finding the surface area of a square pyramid	7.EE.B.3, 7.G.A.1, 7.G.B.6	Choose an item. February
Finding the surface area of a triangular pyramid	7.EE.B.3, 7.G.A.1, 7.G.B.6	February Choose an item.
Finding the volume of a rectangular prism	7.EE.B.3, 7.EE.B.4, 7.G.B.6,	February Choose an item.
Finding the volume of a triangular prism	7.EE.B.3, 7.EE.B.4, 7.G.B.6	Choose an item. February
Find the volume of a pyramid	7.RP.A.3, 7.EE.B.3, 7.G.B.6	Choose an item. February
Describing cross sections of prisms and pyramids	7.RP.A.3, 7.G.A.3,	Choose an item. February
Describing cross sections of cylinders and cones	7.RP.A.3, 7.G.A.3	Choose an item. February
Identifying a translation	8.G.A.1, 8.G.A.3,	Choose an item. February
Translating a figure in the coordinate plane	8.G.A.1, 8.G.A.3	Choose an item. February
Identifying reflections	8.G.A.1, 8.G.A.3	Choose an item. February
Reflecting figures	8.G.A.1, 8.G.A.3	February Choose an item.
Identifying a rotation	8.G.A.1, 8.G.A.3	Choose an item. February
Rotating a figure	8.G.A.1, 8.G.A.3	Choose an item. February
Using more than one transformation	8.G.A.1, 8.G.A.3	Choose an item. February
Identifying congruent figures	8.G.A.1, 8.G.A.2, 8.G.A.3	Choose an item. February
Describing a sequence of rigid motions	8.G.A.1, 8.G.A.2, 8.G.A.3	Choose an item. February
Identifying a dilation	8.G.A.3,	February Choose an item.
Dilating a figure to enlarge	8.G.A.3	Choose an item. February
Dilating a figure to reduce	8.G.A.3	Choose an item. February
Identifying similar figures	8.EE.C.7, 8.G.A.2, 8.G.A.3, 8.G.A.4,	Choose an item. February
Describing a similarity transformation	8.EE.C.7, 8.G.A.2, 8.G.A.3, 8.G.A.4	Choose an item. February
Comparing perimeters of similar figures	8.EE.C.7,	Choose an item. February
Comparing areas of similar figures	8.EE.C.7	February Choose an item.

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Finding angle measures	8.EE.C.7, 8.G.A.1, 8.G.A.5,	Choose an item. March
Using corresponding angles	8.EE.C.7, 8.G.A.1, 8.G.A.5,	Choose an item. March
Identifying angle relationships	8.EE.C.7, 8.G.A.1, 8.G.A.5,	Choose an item. March
Using interior angle measures	8.EE.C.7, 8.G.A.5,	Choose an item. March
Finding exterior angle measures	8.EE.C.7, 8.G.A.5	March Choose an item.
Finding the sum of interior angle measures	8.EE.C.7	Choose an item. March
Finding an interior angle measure of a polygon	8.EE.C.7	Choose an item. March
Identifying similar triangles	8.EE.C.7, 8.G.A.4, 8.G.A.5,	Choose an item. March
Graphing a linear equation	8.EE.C.7,	Choose an item. March
Graphing a horizontal and vertical line	8.EE.C.7	Choose an item. March
Finding slopes of lines	8.EE.B.6, 8.G.A.4,	Choose an item. March
Finding slopes of horizontal and vertical lines	8.EE.B.6, 8.G.A.4	Choose an item. March
Identifying parallel lines	8.EE.B.6, 8.G.A.4	Choose an item. March
Graphing a proportional relationship	8.EE.B.5, 8.EE.B.6, 8.EE.C.7,	Choose an item. March
Writing and using an equation	8.EE.B.5, 8.EE.B.6, 8.EE.C.7,	March Choose an item.
Identifying slopes and y-intercepts	8.EE.B.6,	March Choose an item.
Graphing a linear equation in slope intercept form	8.EE.B.6	Choose an item. March
Graphing a linear equation in standard form	8.EE.C.7,	Choose an item. March
Writing equations in slope intercept form	8.EE.C.7,	Choose an item. March
Writing an equation	8.EE.C.7	Choose an item. March
Writing an equation using a slope and point	8.EE.C.7	March Choose an item.
Writing an equation using two points	8.EE.C.7	Choose an item. March
Writing expressions using exponents	8.EE.A.1	Choose an item. April
Evaluating expressions	8.EE.A.1	Choose an item. April
Using order of operations	8.EE.A.1	Choose an item. April
Multiplying powers with the same base	8.EE.A.1	Choose an item. April
Finding a power of a power	8.EE.A.1	Choose an item. April
Finding a power a product	8.EE.A.1	Choose an item. April

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Dividing powers with the same base	8.EE.A.1	April Choose an item.
Simplifying an expression using exponents	8.EE.A.1	Choose an item. April
Evaluating expressions using negative exponents	8.EE.A.1	Choose an item. April
Simplifying an expression using negative exponents	8.EE.A.1	Choose an item. April
Approximating a large number	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	Choose an item. April
Approximating a small number	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	Choose an item. April
Approximating a quantity	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	Choose an item. April
Writing numbers in scientific notation	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	Choose an item. April
Writing numbers in standard form	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	April Choose an item.
Adding and subtracting in scientific notation	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	Choose an item. April
Multiplying in scientific notation	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	Choose an item. April
Dividing in scientific notation	8.EE.A.1, 8.EE.A.3, 8.EE.A.4	April Choose an item.
Finding square roots of a perfect square	8.EE.A.2	Choose an item. April
Finding square roots	8.EE.A.2	Choose an item. April
Finding square roots of rational numbers	8.EE.A.2	Choose an item. April
Evaluating expressions involving square roots	8.EE.A.2	Choose an item. April
Solving equations using square roots	8.EE.A.2	Choose an item. April
Finding the length of a hypotenuse	8.EE.A.2	Choose an item. April
Finding the length of a leg	8.EE.A.2	Choose an item. April
Finding a length of a 3D figure	8.EE.A.2	Choose an item. April
Finding a distance in a coordinate plane	8.EE.A.2	Choose an item. April
Writing a repeating decimal as a fraction	8.NS.A.1	Choose an item. April
Classifying real numbers	8.NS.A.1, 8.NS.A.2, 8.EE.A.2	Choose an item. April
Approximating an irrational number	8.NS.A.1, 8.NS.A.2, 8.EE.A.2	Choose an item. April
Comparing irrational numbers	8.NS.A.1, 8.NS.A.2, 8.EE.A.2	Choose an item. April
Finding cube roots	8.EE.A.2	Choose an item. April
Evaluating expressions using cube roots	8.EE.A.2	Choose an item. April
Solving equations using cube roots	8.EE.A.2	Choose an item. April

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Using the Pythagorean theorem	8.NS.A.1, 8.NS.A.2, 8.EE.A.2	April Choose an item.
Identifying right triangles	8.EE.A.2	Choose an item. April
Identifying right triangles on the coordinate plane	8.EE.A.2	Choose an item. May
Finding the volume of a cylinder	8.EE.A.2, 8.EE.C.7,8.G.C.9	May Choose an item.
Finding the height of a cylinder	8.EE.A.2, 8.EE.C.7,8.G.C.9	May Choose an item.
Finding the radius of cylinder	8.EE.A.2, 8.EE.C.7,8.G.C.9	Choose an item. May
Finding the volume of a cone	8.EE.A.2, 8.EE.C.7,8.G.C.9	Choose an item. May
Finding the height of a cone	8.EE.A.2, 8.EE.C.7,8.G.C.9	May Choose an item.
Finding the radius of a cone	8.EE.A.2, 8.EE.C.7,8.G.C.9	May Choose an item.
Finding volume of spheres	8.EE.A.2, 8.G.C.9	Choose an item. May
Find the radius of a sphere	8.EE.A.2, 8.G.C.9	Choose an item. May
Identifying similar solids	8.EE.C.7	May Choose an item.
Finding missing measures in similar solids	8.EE.C.7	May Choose an item.
Finding surface area	8.EE.C.7	May Choose an item.
Finding volume	8.EE.C.7	May Choose an item.

ASSESSMENTS

PSSA 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: Bell-ringers, exit ticket, cooperative learning, observations, centers, written work, quizzes, oral response, self-evaluation, peer evaluation, homework and projects

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 assessments, Chapter/unit tests, projects, Final Exam