**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.

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| **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](https://www.education.pa.gov/Educators/Certification/Staffing%20Guidelines/Pages/default.aspx)

**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](https://nces.ed.gov/forum/sced.asp), download the Excel file for *SCED*, click on SCED 6.0 tab, and chose the correct code that corresponds with the course.

**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).

**SCOPE AND SEQUENCE OF CONTENT, CONCEPTS, AND SKILLS**

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| **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 |
| 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 |
| 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 |
| 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. |
| 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 |
| 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 |
| 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