



*2008-2009*  
*Correlation Documentation*

*Nebraska*

Released 8-20-2008

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## Welcome to OdysseyWare®!

We are excited that you are including OdysseyWare as part of your program of instruction, and we look forward to serving you and your students.

This OdysseyWare Correlation Report provides a quick-reference overview of our course materials, together with corresponding state standards. The report may be helpful in planning instruction using OdysseyWare course materials.

As always, we welcome your feedback.

Thanks for choosing us!

*OdysseyWare Curriculum Development Team*

## Using the Correlation Report

The Correlation Report lists OdysseyWare lessons that target your state standards and has been formatted for ease of use.

Section	Description	OW Lesson ID	Title
<b>State:</b>	<b>MA</b>		
<b>Subject:</b>	<b>Science and Technology/Engineering</b>		
<b>Standard:</b>	<b>Curriculum Frameworks</b>		
<b>Grade:</b>	<b>3-5</b>		
SCT.3-5.1.1	Give a simple explanation of what a mineral is and some examples, e.g., quartz, mica.	SCI05U06C01L03D SCI05U08C01L06D	Igneous Structures Rocks on the Earth's Surface

- 1 Displays the state, subject, standard, and grade.
- 2 Displays the state index code for a particular lesson. Each state assigns its own index code.
- 3 Displays the actual verbiage from the state standards document
- 4 Displays the corresponding OdysseyWare lesson identification code. This unique ID number indicates the following:

Subject and Grade	Unit	Chapter	Lesson	Type
SCI05	U06	C01	L03	D (default lesson) A (alternate assignment)

- 5 Displays the OdysseyWare lesson title.

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# Correlations Report



Section	Description	OW Lesson ID	Title
<b>State:</b>	<b>NE</b>		
<b>Subject:</b>	<b>Mathematics</b>		
<b>Standard:</b>	<b>Academic Standards</b>		
<b>Grade:</b>	<b>2-4</b>		
MA.2-4.4.1.1.A	Read and write numerals (in digits and words) through the millions place and decimals to the hundredth place.	MAT04U01C01L01D	Place Value to 1,000's (1)
		MAT04U03C01L01D	Place Value
		MAT04U03C04L17D	Learn Numbers to 100,000's
		MAT04U04C05L16D	Review: Fractions and Place Value
		MAT04U05C01L04D	Review: Time and Number Sense
		MAT04U09C01L01D	Decimals
		MAT04U10C02L07D	Decimal Numbers
MA.2-4.4.1.1.C	Round whole numbers to the nearest named place, such as rounding 1,234 to the nearest hundred would be 1,200.	MAT04U03C01L02D	Rounding Numbers to 10's, 100's, and 1,000's
		MAT04U04C02L04D	Place Value and Rounding
		MAT04U07C03L12D	Review: Rounding Numbers and Place Value
MA.2-4.4.1.2.A	Write numbers in expanded form, such as $432 = 400 + 30 + 2$ .	MAT03U07C03L09D	Review: Expanded Notation and Roman Numerals
		MAT03U08C03L08D	Expanded Notation and Mixed Numbers
		MAT04U03C01L01D	Place Value
		MAT04U04C05L15D	Review: Expanded Notation and Estimation
MA.2-4.4.1.2.B	Represent equivalent fractions with denominators of 2, 4, 5, 8 and 10 ( $1/2 = 2/4$ ) using concrete objects.	MAT04U02C04L15D	Equivalent Fractions
		MAT04U02C05L20D	Review: Bar Graphs and Fractions
		MAT04U03C04L16D	Equivalent Fractions
		MAT04U06C02L09D	Equivalent Fractions

Section	Description	OW Lesson ID	Title
MA.2-4.4.1.3.B	Illustrate mathematical concepts by using objects and drawing pictures or diagrams (subtraction as the opposite of addition and multiplication as repeated addition).	MAT03U01C02L10D	Adding Multi-Digit Numbers
MA.2-4.4.2.1.A	Demonstrate with accuracy and reasonable speed the basic facts of addition (1-20), subtraction (1-20), multiplication (1-144), and division (1-44).	MAT03U01C02L10D	Adding Multi-Digit Numbers
		MAT04U01C02L08D	Multiplication Facts
		MAT04U01C04L17D	Practice Multiplication
		MAT04U02C01L01D	Operations
		MAT04U02C01L02D	Multiplication Facts: 6-10 and Review
		MAT04U05C02L08D	Division Facts
		MAT04U05C04L16D	Division Practice
		MAT04U06C01L03D	Multiplication Facts For 11 and 12
		MAT04U07C01L01D	Multiplication and Division
MA.2-4.4.2.1.C	Multiply up to a three-digit number by a two-digit number.	MAT04U09C03L10D	Multiply and Divide
		MAT04U07C02L08D	Multiplication and Fractions
		MAT04U08C04L13D	Review: Multiplication
MA.2-4.4.2.1.E	Choose correct operation and solve word problems.	MAT04U09C03L10D	Multiply and Divide
		MAT03U07C04L16D	Multiple Concept Review
		MAT04U01C05L22D	Story Problems
		MAT04U03C05L20D	Reading and Solving Story Problems
MA.2-4.4.2.2.A	Add and subtract decimals to the hundredth place.	MAT04U10C04L13D	Word Problems and Equations
		MAT04U09C01L03D	Add and Subtract Decimals
MA.2-4.4.2.3.A	Solve problems involving fractions of halves, fourths, and eighths using the operations of addition and subtraction.	MAT04U10C03L10D	Review: Fractions

Section	Description	OW Lesson ID	Title
MA.2-4.4.3.1.A	Use the appropriate units of measurement.	MAT04U08C04L12D	Review: Time
MA.2-4.4.3.1.B	Estimate and accurately measure length to the nearest meter or centimeter and calculate area.	MAT04U08C04L12D	Review: Time
		MAT04U09C04L16D	Multiple Concept Review
MA.2-4.4.3.1.C	Estimate and accurately measure mass/weight to the nearest gram.	MAT04U08C04L12D	Review: Time
MA.2-4.4.3.1.D	Estimate and accurately measure capacity to the nearest milliliter.	MAT04U05C02L07D	Capacity (Dry and Liquid Measurement)
MA.2-4.4.3.2.B	Estimate and accurately measure length to the nearest yard, foot, inch, and quarter inch and calculate area.	MAT04U05C02L06D	Linear Measurement
		MAT04U05C03L13D	Perimeter and Area (2)
		MAT04U08C04L15D	Review: Roman Numerals, Measurement, and Symbols
MA.2-4.4.3.2.C	Estimate and accurately measure mass/weight to the nearest ounce and pound.	MAT04U08C04L15D	Review: Roman Numerals, Measurement, and Symbols
MA.2-4.4.3.2.D	Estimate and accurately measure capacity to the nearest fluid ounce.	MAT04U05C02L07D	Capacity (Dry and Liquid Measurement)
MA.2-4.4.3.3.C	Identify time of day (am, pm, noon, and midnight).	MAT04U01C02L10D	Telling Time
		MAT04U08C04L14D	Review: Operations and Rounding
MA.2-4.4.3.4	Measure and determine the perimeter of a many-sided figure without a formula using standard and metric units of measure.	MAT04U05C03L12D	Perimeter and Area (1)
		MAT04U08C04L12D	Review: Time
MA.2-4.4.4.1	Identify, describe, and create two and three-dimensional geometric shapes.	MAT03U03C05L20D	Review: Shapes and Measurement

Section	Description	OW Lesson ID	Title
		MAT04U04C01L01D	Plane and Solid Shapes
		MAT04U04C04L10D	Review: Plane and Solid Shapes
		MAT04U07C04L15D	Review: Shapes, Perimeter, and Area
		MAT04U10C04L12D	Shapes
MA.2-4.4.4.2	Identify and draw points, lines, line segments, rays, and angles.	MAT03U07C04L16D	Multiple Concept Review
		MAT04U04C03L07D	Lines, Segments, End Points, Rays, Angles
		MAT04U09C04L16D	Multiple Concept Review
MA.2-4.4.4.3	Identify, analyze, and compare two- dimensional geometric figures using congruence, symmetry, similarity, and simple transformations.	MAT04U04C01L01D	Plane and Solid Shapes
		MAT04U04C04L10D	Review: Plane and Solid Shapes
		MAT04U07C04L15D	Review: Shapes, Perimeter, and Area
		MAT04U10C04L12D	Shapes
MA.2-4.4.5.1.A	Collect, organize, and interpret data in line plots, tables, charts, and graphs (pie graphs, bar graphs, and pictographs).	MAT03U09C05L17D	Likelihood and Graphs
		MAT04U02C05L20D	Review: Bar Graphs and Fractions
		MAT04U10C01L01D	Data Collection and Random Sampling
		MAT04U10C01L04D	Graphs
		MAT04U10C01P02D	Project: Collecting Data
MA.2-4.4.6.1.A	Use letters, boxes, or other symbols to stand for any number, measured quantity, or object in simple situations to demonstrate the beginning concept of a variable and writing formulas.	MAT04U02C02L07D	Missing Number Equations
MA.2-4.4.6.1.B	Identify and use various indicators of multiplication (parentheses, x, *) and division, ( /, ÷).	MAT04U09C04L16D	Multiple Concept Review

Section	Description	OW Lesson ID	Title
<b>Standard:</b>	<b>Grade Level Expectations</b>		
<b>Grade:</b>	<b>3</b>		
MA.3.1.1	Choose the correct operation to solve word problems.	MAT03U04C05L17D	Review: Word Problems and Money
		MAT03U05C05L20D	Review: Story Problems
		MAT03U06C05L16D	Story Problems
		MAT03U07C04L16D	Multiple Concept Review
		MAT03U08C05L15D	Word Problems
MA.3.1.2	Solve one-step word problems involving addition and subtraction.	MAT03U03C02L08D	Checking Addition Problems (2)
		MAT03U04C05L17D	Review: Word Problems and Money
		MAT03U05C05L20D	Review: Story Problems
		MAT03U06C05L16D	Story Problems
		MAT03U07C04L16D	Multiple Concept Review
MAT03U08C05L15D	Word Problems		
MA.3.1.3	Add and subtract three-digit numbers.	MAT03U01C03L12D	Subtracting 3-Digit Numbers
		MAT03U02C01L02D	Adding Ones, Tens, and Hundreds
		MAT03U02C01L03D	Subtracting Ones, Tens, and Hundreds
		MAT03U02C02L06D	Addition with Carrying
		MAT03U03C01L01D	Fact Families, Mental Math, and Addition
		MAT03U03C03L10D	Subtraction with Borrowing
		MAT03U03C03L12D	Subtraction with Borrowing and Checking
		MAT03U03C04L16D	Addition Practice
		MAT03U04C01L02D	Addition
		MAT03U04C02L05D	Subtraction with Borrowing
		MAT03U04C03L10D	Addition and Subtraction: Horizontal Form
		MAT03U04C04L14D	Review: Subtraction with Borrowing
MAT03U05C04L15D	Review: Checking Addition		

Section	Description	OW Lesson ID	Title
		MAT03U06C02L05D	Review: Subtraction
		MAT03U08C04L13D	Review: Addition With Checking
		MAT03U09C01L03D	Add/Subtract with Checking

<b>Standard:</b>	<b>Standards That Are Reported</b>
<b>Grade:</b>	<b>4</b>

MA.4.4.1.1.a	Read and write numerals (in digits and words) through the one millions place and decimals to the hundredth place.	MAT04U01C01L01D	Place Value to 1,000's (1)
		MAT04U03C01L01D	Place Value
		MAT04U03C04L17D	Learn Numbers to 100,000's
		MAT04U04C05L16D	Review: Fractions and Place Value
		MAT04U05C01L04D	Review: Time and Number Sense
		MAT04U09C01L01D	Decimals
		MAT04U10C02L07D	Decimal Numbers

MA.4.4.1.1.c	Round whole numbers to the nearest named place, such as rounding 1,234 to the nearest hundred would be 1,200.	MAT04U02C04L16D	Rounding Numbers to 100's
		MAT04U03C01L02D	Rounding Numbers to 10's, 100's, and 1,000's
		MAT04U04C02L04D	Place Value and Rounding
		MAT04U07C03L12D	Review: Rounding Numbers and Place Value

MA.4.4.2.1.a	Demonstrate with accuracy and reasonable speed the basic facts of addition (1-20), subtraction (1-20), multiplication (1-144), and division (1-144).	MAT04U01C02L08D	Multiplication Facts
		MAT04U01C04L17D	Practice Multiplication
		MAT04U02C01L01D	Operations
		MAT04U02C01L02D	Multiplication Facts: 6-10 and Review
		MAT04U05C02L08D	Division Facts
		MAT04U05C04L16D	Division Practice
		MAT04U06C01L03D	Multiplication Facts For 11 and 12

Section	Description	OW Lesson ID	Title
		MAT04U07C01L01D	Multiplication and Division
		MAT04U09C03L10D	Multiply and Divide
MA.4.4.2.1.c	Multiply up to a three-digit number by a two-digit number.	MAT04U07C02L08D	Multiplication and Fractions
		MAT04U08C04L13D	Review: Multiplication
		MAT04U09C03L10D	Multiply and Divide
MA.4.4.2.1.e	Choose correct operation and solve word problems.	MAT04U01C05L22D	Story Problems
		MAT04U03C05L20D	Reading and Solving Story Problems
		MAT04U10C04L13D	Word Problems and Equations
MA.4.4.3.1.a	Use the appropriate units of measurement.	MAT04U08C04L12D	Review: Time
MA.4.4.3.1.b	Estimate and accurately measure length to the nearest meter or centimeter and calculate area.	MAT04U05C03L13D	Perimeter and Area (2)
		MAT04U08C04L12D	Review: Time
		MAT04U09C04L16D	Multiple Concept Review
MA.4.4.3.1.c	Estimate and accurately measure mass/weight to the nearest gram.	MAT04U08C04L12D	Review: Time
MA.4.4.3.1.d	Estimate and accurately measure capacity to the nearest milliliter.	MAT04U05C02L07D	Capacity (Dry and Liquid Measurement)
MA.4.4.3.2.b	Estimate and accurately measure length to the nearest yard, foot, inch, and quarter inch and calculate area.	MAT04U05C02L06D	Linear Measurement
		MAT04U05C03L13D	Perimeter and Area (2)
		MAT04U08C04L15D	Review: Roman Numerals, Measurement, and Symbols
MA.4.4.3.2.c	Estimate and accurately measure mass/weight to the nearest ounce and pound.	MAT04U08C04L15D	Review: Roman Numerals, Measurement, and Symbols

Section	Description	OW Lesson ID	Title
MA.4.4.3.2.d	Estimate and accurately measure capacity to the nearest fluid ounce.	MAT04U05C02L07D	Capacity (Dry and Liquid Measurement)
MA.4.4.4.3	By the end of fourth grade, students will identify, analyze, and compare two-dimensional geometric figures using congruence, symmetry, similarity, and simple transformations.	MAT04U04C01L01D	Plane and Solid Shapes
		MAT04U04C04L10D	Review: Plane and Solid Shapes
		MAT04U10C04L12D	Shapes
MA.4.4.5.1.a	Collect, organize, and interpret data in line plots, tables, charts, and graphs (pie graphs, bar graphs, and pictographs).	MAT04U02C05L20D	Review: Bar Graphs and Fractions
		MAT04U10C01L01D	Data Collection and Random Sampling
		MAT04U10C01L04D	Graphs
		MAT04U10C01P02D	Project: Collecting Data
<b>Standard:</b>	<b>Alternative Standards</b>		
<b>Grade:</b>	<b>5</b>		
MA.5.M.5.1.1	The student, with teacher prompting, collects data.	MAT05U10C01L01D	Estimation and Prediction
MA.5.M.5.1.2	The student collects and organizes data with prompts.	MAT05U10C01L01D	Estimation and Prediction
MA.5.M.5.1.3	The student collects and organizes data.	MAT05U10C01L01D	Estimation and Prediction
MA.5.M.5.1.4	The student collects, organizes, records, and interprets data with prompts.	MAT05U10C01L01D	Estimation and Prediction
MA.5.M.5.1.5	The student collects, organizes, records and interprets data.	MAT05U10C01L01D	Estimation and Prediction

Section	Description	OW Lesson ID	Title
MA.5.M.5.1.6	The student collects, organizes, records, and interprets data with prompts in everyday school situations.	MAT05U10C01L01D	Estimation and Prediction
MA.5.M.5.1.7	The student collects, organizes, records, and interprets data in everyday situations.	MAT05U10C01L01D	Estimation and Prediction
<b>Standard: Grade Level Expectations</b>			
<b>Grade: 5</b>			
MA.5.1.1	Solve one- and two-step word problems involving addition and subtraction of multi-digit whole numbers.	MAT05U02C06L24D	Practice Reading Symbols
		MAT05U03C03L10D	Writing a Number Sentence
MA.5.1.2	Solve one- and two-step word problems involving multiplication and division of multi-digit whole numbers by one-digit whole numbers.	MAT05U02C05L19D	Drill: Divide
		MAT05U02C06L24D	Practice Reading Symbols
		MAT05U03C03L10D	Writing a Number Sentence
		MAT05U03C04L13D	Review
		MAT05U04C03L12D	Solving Multiplication Problems (1)
		MAT05U04C03L13D	Solving Multiplication Problems (2)
		MAT05U05C03L09D	Review (1)
		MAT05U05C05L17D	Long and Short Division (2)
		MAT05U06C03L10D	Multiplying Whole Numbers
		MAT05U06C03L11D	Dividing Whole Numbers
		MAT05U09C05L18D	Word Problems
MA.5.1.3	Solve one- and two-step word problems involving addition and subtraction of decimals in money situations.	MAT05U02C06L24D	Practice Reading Symbols
		MAT05U03C03L10D	Writing a Number Sentence

Section	Description	OW Lesson ID	Title
		MAT05U06C04L13D	Adding Decimals
		MAT05U06C04L14D	Adding Decimals in Columns
		MAT05U06C04L15D	Subtracting Decimals
		MAT05U08C01L04D	Add and Subtract Decimals with Your Calculator
		MAT05U09C05L16D	Adding and Subtracting Mixed Numbers and Decimals

**Standard: Academic Standards**

**Grade: 5-8**

MA.5-8.8.1.1	Recognize natural numbers whole numbers, integers, and rational numbers.	IMA01U01C01L01D	Classifying and Comparing Numbers
		MAT07U01C01L01D	Introductory Review(1)
		MAT08U02C04L26D	Exploring Different Kinds of Numbers
MA.5-8.8.1.2.A	Find the equivalencies among fractions, decimals, and percents.	MAT07U06C03L13D	Solving for Percentages
		MAT07U06C03L14D	Solving for Percentages: Rate and Base
		MAT07U10C03L10D	Base, Rate, and Percentage
		MAT07U10C03L11D	Percentages and Averages
		MAT08U02C03L17D	Percent and Percent as Decimal
MA.5-8.8.1.3.A	Write numbers in expanded form using exponential notation.	MAT06U10C01L01D	Operating on Whole Numbers
		MAT07U01C01L01D	Introductory Review(1)
		MAT07U01C01L02D	Introductory Review (2)
		MAT07U02C01L01D	Place Value Review
		MAT07U02C01L02D	Expanded and Exponential Form
		MAT07U10C01L01D	Place Value, Order, and Rounding
		MAT08U01C01L01D	Whole Number Place Value
		MAT08U01C02L06D	Base Ten and Exponential Form
MAT08U02C01L04D	Squares and Square Roots		

Section	Description	OW Lesson ID	Title
		MAT08U05C01L01D	Review of Basic Number Theory
		MAT08U05C01L08D	Review: Factors, Multiples, and Rational Numbers
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
MA.5-8.8.1.3.B	Express small and large numbers using scientific notation.	MAT08U02C04L23D	Introduction to Scientific Notation
MA.5-8.8.1.4.A	Properties of numbers may include, but not be limited to, order of operations, commutative, associative, distributive, identity, and inverse.	IMA01U01C01L02D	Fractions
		IMA01U01C01L04D	Exponents and Order of Operations
		IMA01U01C02L07D	Evaluating Expressions
		IMA01U01C02L08D	Commutative and Associative Properties
		IMA01U01C02L09D	The Distributive Property
		IMA01U01C02L10D	Simplifying Expressions
		MAT06U02C01L03D	Operations and Their Opposites
		MAT06U03C03L12D	Properties of Addition and Multiplication
		MAT07U04C01L01D	Properties of Addition and Multiplication
		MAT07U04C01L02D	The Distributive Property
		MAT07U09C01L03D	Ordered Pairs and Functions
		MAT08U02C01L04D	Squares and Square Roots
		MAT08U05C01L01D	Review of Basic Number Theory
		MAT08U08C01L05D	Distributive Property
		MAT08U10C02L13D	Solving Equations
MA.5-8.8.2.1	Add, subtract, multiply, and divide decimals and proper, improper, and mixed fractions with uncommon and common denominators with and without the use of technology.	MAT06U04C02L07D	Adding Decimals
		MAT06U04C02L08D	Subtracting Decimals
		MAT06U04C02L09D	Review: Adding and Subtracting Decimals

Section	Description	OW Lesson ID	Title
		MAT06U04C03L12D	Multiplying Decimals
		MAT06U04C03L13D	Review: Multiplying Decimals
		MAT06U04C04L17D	Dividing Decimals with Remainders
		MAT06U04C04L18D	Review: Division
		MAT06U05C01L03D	Dividing Decimals
		MAT06U06C01L01D	Multiplying Fractions
		MAT06U06C02L07D	Dividing Fractions
		MAT06U06C02L08D	Dividing Fractions and Whole Numbers
		MAT06U06C03L12D	Review: Dividing Fractions and Whole and Mixed Numbers (1)
		MAT06U06C03L13D	Review: Dividing Fractions and Whole and Mixed Numbers (2)
		MAT06U06C03L14D	Multiplying and Dividing Decimals
		MAT06U07C03L10D	Practice Adding Fractions
		MAT06U07C03L11D	Practice Subtracting Fractions
		MAT06U10C04L13D	Adding and Subtracting Decimals
		MAT06U10C04L14D	Multiplying Decimals
		MAT06U10C04L15D	Dividing Decimals and Rounding Numbers
		MAT07U02C02L08D	Decimals: Addition and Subtraction (1)
		MAT07U02C02L09D	Decimals: Addition and Subtraction (2)
		MAT07U05C04L15D	Decimals with a Calculator
		MAT07U06C01L01D	Multiplying Fractions
		MAT07U06C01L05D	Dividing Fractions and Mixed Numbers
		MAT07U06C01L06D	Problem Solving: Multiplication, Division, and Reasonable Answers
		MAT07U06C02L09D	Decimals: Multiplication
		MAT07U06C02L10D	Decimals: Division
		MAT07U06C02L11D	Decimals: Word Problems
		MAT08U02C02L08D	Proper Fractions and Equivalent Fractions
		MAT08U02C02L10D	Improper Fractions and Mixed Numbers
		MAT08U02C02L11D	Mixed Numbers and Improper Fractions

Section	Description	OW Lesson ID	Title
		MAT08U02C04L25D	Adding Fractions and Decimals
		MAT08U03C03L13D	Addition of Decimals
		MAT08U03C03L14D	Subtraction of Decimals
		MAT08U03C03L15D	Calculator Exercises
		MAT08U03C04L18D	Fraction and Decimal Review
		MAT08U04C01L01D	Multiplying Fractions
		MAT08U04C01L02D	Multiplying Mixed Numbers and Decimal Numbers
		MAT08U04C02L04D	Division of Fractions
		MAT08U04C02L05D	Division of Decimal Numbers (1)
		MAT08U04C02L06D	Division of Decimal Numbers (2)
		MAT08U04C02L07D	Decimal Division and Rounding (1)
		MAT08U04C02L08D	Decimal Division and Rounding (2)
		MAT08U04C02L09D	Review of Decimal Division, Rounding, and Function Tables
		MAT08U05C01L08D	Review: Factors, Multiples, and Rational Numbers
		MAT08U05C02L13D	Review: Addition and Subtraction of Decimals
		MAT08U05C02L14D	Review: Multiplication of Fractions and Decimals
		MAT08U05C02L15D	Review: Division of Fractions and Decimals
MA.5-8.8.2.2	Identify the appropriate operation and do the correct calculations when solving word problems.	MAT07U02C02L10D	Applications
		MAT08U08C03L16D	Problem Solving (1)
		MAT08U08C03L17D	Problem Solving (2)
		MAT08U10C02L14D	Applications
MA.5-8.8.2.3.A	Use proportions to solve scale-model problems with fractions and decimals.	MAT07U05C04L12D	Ratios and Proportions
		MAT07U07C05L14D	Proportion Review
		MAT07U09C03L10D	Review: Proportions
		MAT07U10C01L02D	Central Tendency, Ratios, and Proportions
		MAT07U10C04L15D	Ratios and Proportions

Section	Description	OW Lesson ID	Title
		MAT08U02C04L21D	Introduction to Proportions
MA.5-8.8.2.4.A	Evaluate all types of numerical expressions, including grouping symbols and exponents.	ALG01U07C01L02D	Exponential Expressions
		IMA01U01C01L04D	Exponents and Order of Operations
		IMA01U01C02L07D	Evaluating Expressions
		MAT06U10C01L01D	Operating on Whole Numbers
		MAT08U01C02L06D	Base Ten and Exponential Form
		MAT08U02C01L04D	Squares and Square Roots
		MAT08U05C01L08D	Review: Factors, Multiples, and Rational Numbers
		MAT08U10C01L05D	Algebraic Expressions and Variables
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
MA.5-8.8.2.5.A	Properly round to an appropriate place value if context permits.	MAT06U02C02L07D	Estimating
		MAT06U03C01L01D	Estimating Sums and Differences (1)
		MAT06U03C01L03D	Estimating Sums and Differences (3)
		MAT06U10C01L02D	Basic Operations and Rounding
		MAT07U10C01L01D	Place Value, Order, and Rounding
		MAT08U01C01L01D	Whole Number Place Value
		MAT08U05C01L01D	Review of Basic Number Theory
MA.5-8.8.2.5.B	Perform estimation prior to calculation.	MAT06U03C01L01D	Estimating Sums and Differences (1)
MA.5-8.8.2.5.C	Without a calculator, estimate square roots of whole numbers up to one hundred to the nearest whole number.	MAT06U03C01L01D	Estimating Sums and Differences (1)
		MAT08U02C01L03D	Using Factors and Multiples
		MAT08U02C01L04D	Squares and Square Roots
		MAT08U06C01L01D	Area, Perimeter, and Square Roots

Section	Description	OW Lesson ID	Title
		MAT08U10C02L10D	Geometric Formulas and Square Roots
MA.5-8.8.3.1	Select measurement tools and measure quantities for temperature, time, money, distance, angles, area, perimeter, volume, capacity, and weight/mass in standard and metric units at the designated level of precision.	MAT06U08C03L12D	Perimeter, Area, and Volume (1)
		MAT06U08C04L17D	The Metric System
		MAT07U04C02L11D	Multiplying and Dividing Weights and Measures
		MAT07U05C04L13D	Metric Measurement
		MAT07U07C02L05D	Perimeter and Area of Triangles
		MAT07U10C02L05D	Geometric Properties
		MAT08U02C04L23D	Introduction to Scientific Notation
		MAT08U06C01L01D	Area, Perimeter, and Square Roots
MA.5-8.8.3.2.A	Convert between various units of area and various units of volume (square foot to square yards and cubic decimeters to liters, etc.).	MAT06U08C03L12D	Perimeter, Area, and Volume (1)
		MAT07U07C02L05D	Perimeter and Area of Triangles
		MAT07U10C02L05D	Geometric Properties
		MAT08U06C01L01D	Area, Perimeter, and Square Roots
		MAT08U06C01L04D	Types of Quadrilaterals
		MAT08U06C02L06D	Rectangular Solids
MA.5-8.8.4.1	Identify, describe, compare, and classify two-and three-dimensional geometric figures such as plane figures like polygons and circles; solid figures like prisms, pyramids, cones, spheres, and cylinders; and lines, line segments, rays, angles, parallel and perpendicular lines.	MAT06U08C01L01D	Two- and Three- Dimensional Shapes
		MAT06U08C01L02D	Three Dimensional Shapes
		MAT06U08C02L06D	Lines, Rays, and Angles
		MAT06U08C02L07D	Lines and Angles
		MAT06U08C02L08D	Angle Measurement

Section	Description	OW Lesson ID	Title
		MAT07U07C01L01D	Introduction to Lines, and Angles
		MAT08U06C01L01D	Area, Perimeter, and Square Roots
		MAT08U06C02L06D	Rectangular Solids
		MAT08U06C03L09D	Solid Figures
MA.5-8.8.4.2	Use geometric properties, the Pythagorean theorem, and the relationships of congruence, similarity, and symmetry.	MAT06U08C01L03D	Symmetry, Congruency, and Similarity
		MAT08U02C04L22D	Similar Figures and Scale Drawings
		MAT08U05C01L09D	Review: Decimals and Applications
		MAT08U06C03L11D	Translations
MA.5-8.8.4.3	Use formulas to solve problems involving perimeter and area of a square, rectangle, parallelogram, trapezoid and triangle, as well as the area and circumference of circles.	MAT06U08C01L04D	Circles
		MAT06U08C03L13D	Perimeter, Area, and Volume (2)
		MAT06U08C03L14D	Review of Formulas
		MAT06U08C03L15D	Practice: Perimeter, Circumference, Area, and Volume
		MAT07U07C03L07D	Perimeter and Area of Squares and Rectangles
		MAT07U07C03L08D	Parallelograms, Trapezoids, and Formulas
		MAT07U07C04L10D	Circles
		MAT07U07C04L11D	Hexagons
		MAT07U09C01L02D	Formulas: From Interest to Miles per Gallon
		MAT07U10C02L05D	Geometric Properties
		MAT07U10C04L13D	Formula Review
		MAT08U06C01L01D	Area, Perimeter, and Square Roots
		MAT08U06C01L02D	Circumference and Area of Circles
		MAT08U06C01L04D	Types of Quadrilaterals
		MAT08U08C01L03D	Variables in Formulas
		MAT08U10C02L10D	Geometric Formulas and Square Roots

Section	Description	OW Lesson ID	Title
MA.5-8.8.4.4	Solve problems given formulas for volume and surface area of rectangular prisms, cylinders, and cones.	MAT08U06C01L01D	Area, Perimeter, and Square Roots
		MAT08U06C02L06D	Rectangular Solids
		MAT08U06C02L07D	Pyramids and Prisms
		MAT08U06C03L09D	Solid Figures
		MAT08U08C01L03D	Variables in Formulas
		MAT08U10C02L10D	Geometric Formulas and Square Roots
		MAT08U10C02L11D	Area and Volume
MA.5-8.8.4.5.A	Draw geometric figures using translations or slides, rotations or turns, reflections or flips, and scale.	MAT08U06C03L11D	Translations
MA.5-8.8.5.3.A	Compare the results of a simulation (relative frequency) to the theoretical probability (a three color spinner or a coin).	MAT07U08C01L02D	Introduction to Frequency Distribution
		MAT08U01C04L13D	Simple Probability
MA.5-8.8.5.4.C	Identify the use of measures of central tendency (mean, median, and mode) appropriately.	MAT06U09C03L08D	Mean, Median, and Mode
		MAT06U09C03L09D	Statistics: Averaging
		MAT06U09C03L10D	Averages, Equalities, and Inequalities
		MAT06U10C02L05D	Fractions, Averages, and Graphs
		MAT07U08C02L04D	Measures of Central Tendency: Mode and Median
		MAT07U08C02L05D	Measures of Central Tendency: Mean and Range
		MAT07U10C01L02D	Central Tendency, Ratios, and Proportions
		MAT07U10C04L16D	Different Types of Statistics
		MAT08U05C02L17D	Mean, Mode, Median, and Range
		MAT08U09C01L01D	Statistics: Mean
MAT08U09C01L02D	Median and Mode		
MA.5-8.8.6.1.B	Graph ordered pairs on a coordinate plane.	MAT06U09C04L14D	Coordinate Graphs
		MAT07U03C01L03D	Number Patterns and Ordered Pairs

Section	Description	OW Lesson ID	Title
		MAT08U05C02L18D	Graphs and Probability
		MAT08U10C01L01D	Integers, Absolute Value, and Cartesian Planes
MA.5-8.8.6.1.C	Generate a table of ordered pairs to graph an equation in two variables.	MAT06U09C04L14D	Coordinate Graphs
		MAT07U03C01L03D	Number Patterns and Ordered Pairs
		MAT08U05C02L18D	Graphs and Probability
		MAT08U10C01L01D	Integers, Absolute Value, and Cartesian Planes
		MAT08U10C01L08D	Graphing Algebraic Sentences
MA.5-8.8.6.2.A	Solve multi-step equations with one variable.	ALG01U01C01L01D	Variables and Expressions
		MAT07U09C01L01D	Solving for Unknown Variables
		MAT08U10C01L05D	Algebraic Expressions and Variables
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
MA.5-8.8.6.2.B	Use order of operations to evaluate algebraic expressions for given replacement values of the variables.	IMA01U01C02L07D	Evaluating Expressions
		MAT08U10C01L05D	Algebraic Expressions and Variables
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
MA.5-8.8.6.2.C	Recognize and apply commutative, associative, distributive, inverse, and identity properties, and the properties of zero.	IMA01U01C01L02D	Fractions
		IMA01U01C02L08D	Commutative and Associative Properties
		IMA01U01C02L09D	The Distributive Property
		IMA01U01C02L10D	Simplifying Expressions
		MAT06U02C01L03D	Operations and Their Opposites
		MAT06U03C03L12D	Properties of Addition and Multiplication
		MAT07U04C01L02D	The Distributive Property

Section	Description	OW Lesson ID	Title
		MAT08U08C01L05D	Distributive Property
		MAT08U10C02L13D	Solving Equations
MA.5-8.8.6.3.A	Use variables to recognize and describe patterns.	ALG01U01C01L01D	Variables and Expressions
		MAT07U03C01L03D	Number Patterns and Ordered Pairs
		MAT07U09C01L01D	Solving for Unknown Variables
		MAT08U10C01L05D	Algebraic Expressions and Variables
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)

**Standard: Grade Level Expectations**

**Grade: 6**

MA.6.1.2	Solve multi-step word problems involving multiplication and division of multi-digit whole numbers by up to two-digit whole numbers.	MAT06U02C03L10D	Multiplication of Whole Numbers
		MAT06U02C03L11D	Factors, Multiples, and Whole Number Multiplication
		MAT06U02C04L13D	Division of Whole Numbers (1)
		MAT06U02C04L14D	Division of Whole Numbers (2)
		MAT06U04C04L15D	Dividing Whole and Decimal Numbers by Powers of Ten
		MAT06U06C02L08D	Dividing Fractions and Whole Numbers
		MAT06U10C01L03D	Multiplying and Dividing Whole Numbers
MA.6.1.3	Solve word problems involving addition, subtraction and multiplication of decimals up to the thousandths.	MAT06U06C03L14D	Multiplying and Dividing Decimals
		MAT06U10C04L13D	Adding and Subtracting Decimals
		MAT06U10C04L14D	Multiplying Decimals

**Standard: Alternative Standards**

**Grade: 7**

Section	Description	OW Lesson ID	Title
MA.7. M.7.1.2	The student tells time with prompts.	MAT07U04C02L11D	Multiplying and Dividing Weights and Measures
MA.7. M.7.1.3	The student tells time.	MAT07U04C02L11D	Multiplying and Dividing Weights and Measures
MA.7. M.7.1.4	The student measures and tells time with prompts.	MAT07U04C02L11D	Multiplying and Dividing Weights and Measures
MA.7. M.7.1.5	The student measures and tells time.	MAT07U04C02L11D	Multiplying and Dividing Weights and Measures
MA.7. M.7.1.6	The student measures and tells time on both digital and standard clocks with prompts.	MAT07U04C02L11D	Multiplying and Dividing Weights and Measures
MA.7. M.7.1.7	The student measures and tells time on both digital and standard clocks.	MAT07U04C02L11D	Multiplying and Dividing Weights and Measures

<b>Standard:</b>	<b>Grade Level Expectations</b>
<b>Grade:</b>	<b>7</b>

MA.7.1.1	Solve multi-step word problems involving addition, subtraction, multiplication and division of decimals.	MAT07U05C04L15D	Decimals with a Calculator
		MAT07U06C02L09D	Decimals: Multiplication
		MAT07U06C02L10D	Decimals: Division
		MAT07U06C02L11D	Decimals: Word Problems
MA.7.1.2	Solve multi-step word problems involving addition, subtraction and multiplication of fractions and mixed numbers.	MAT07U06C01L03D	Multiplying Mixed Numbers (1)
		MAT07U06C01L04D	Multiplying Mixed Numbers (2)
		MAT07U06C01L06D	Problem Solving: Multiplication, Division, and Reasonable Answers
MA.7.1.3	Solve simple word problems involving integer number line problems such as temperature, bank account, and football.	MAT07U02C02L10D	Applications

Section	Description	OW Lesson ID	Title
<b>Standard:</b>	<b>Standards That Are Reported</b>		
<b>Grade:</b>	<b>8</b>		
MA.8.8.1.2.a	Find the equivalencies among fractions, decimals, and percents.	MAT08U02C03L17D	Percent and Percent as Decimal
MA.8.8.2.2	By the end of eighth grade, students will identify the appropriate operation and do the correct calculations when solving word problems.	MAT08U08C03L16D	Problem Solving (1)
		MAT08U08C03L17D	Problem Solving (2)
		MAT08U10C02L14D	Applications
MA.8.8.2.3.a	Use proportions to solve scale-model problems with fractions and decimals.	MAT08U02C04L21D	Introduction to Proportions
MA.8.8.3.1	By the end of eighth grade, students will select measurement tools and measure quantities for temperature, time, money, distance, angles, area, perimeter, volume, capacity, and weight/mass in standard and metric units at the designated level of precision.	MAT08U02C04L23D	Introduction to Scientific Notation
		MAT08U06C01L01D	Area, Perimeter, and Square Roots
MA.8.8.4.3	By the end of eighth grade, students will use formulas to solve problems involving perimeter and area of a square, rectangle, parallelogram, trapezoid and triangle, as well as the area and circumference of circles.	MAT08U06C01L01D	Area, Perimeter, and Square Roots
		MAT08U06C01L02D	Circumference and Area of Circles
		MAT08U06C01L04D	Types of Quadrilaterals
		MAT08U08C01L03D	Variables in Formulas
MA.8.8.6.2.a	Solve multi-step equations with one variable.	ALG01U01C01L01D	Variables and Expressions
		MAT08U10C01L05D	Algebraic Expressions and Variables

Section	Description	OW Lesson ID	Title
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
MA.8.8.6.2.b	Use order of operations to evaluate algebraic expressions for given replacement values of the variables.	IMA01U01C02L07D	Evaluating Expressions
		MAT08U10C01L05D	Algebraic Expressions and Variables
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
MA.8.8.6.2.c	Recognize and apply commutative, associative, distributive, inverse, and identity properties, and the properties of zero.	IMA01U01C01L02D	Fractions
		IMA01U01C02L08D	Commutative and Associative Properties
		IMA01U01C02L09D	The Distributive Property
		IMA01U01C02L10D	Simplifying Expressions
		MAT08U08C01L05D	Distributive Property
		MAT08U10C02L13D	Solving Equations
MA.8.8.6.3.a	Use variables to recognize and describe patterns.	ALG01U01C01L01D	Variables and Expressions
		MAT08U10C01L05D	Algebraic Expressions and Variables
		MAT08U10C01L06D	Expressions, Variables, and Exponents (1)
		MAT08U10C01L07D	Expressions, Variables, and Exponents (2)
<b>Standard:</b>	<b>Academic Standards</b>		
<b>Grade:</b>	<b>9-12</b>		
MA.9-12.12.1.1.A	Draw Venn diagrams including, but not limited to, natural, whole, integers, rational, irrational, and real numbers.	ALG01U01C02L05D	Classifying and Comparing Numbers
		ALG02U10C02L14D	Real Numbers Continued
		CMAU01C01L02D	Number Skills
		IMA01U01C01L01D	Classifying and Comparing Numbers

Section	Description	OW Lesson ID	Title
MA.9-12.12.1.1.B	Find intersection and union of two sets of numbers.	GEOU01C01L02D	Mathematic System: Operations with Sets
MA.9-12.12.1.1.C	Given a number, identify which subsets it belongs.	ALG02U01C01L01D CMAU03C01L04D GEOU01C01L01D PRCU01C01L01D	Properties of Sets Sets and Probability: Part II Mathematic System: Set Theory Review Ordered-Pair Numbers: Relations
MA.9-12.12.1.1.D	Justify why a number does not belong to a specific set.	CMAU03C01L04D PRCU01C01L01D	Sets and Probability: Part II Ordered-Pair Numbers: Relations
MA.9-12.12.1.2	Express the equivalent forms of numbers using exponents, radicals, scientific notation, absolute values, fractions, decimals, and percents.	ALG01U07C01L03D ALG01U07C02L05D ALG01U07C02L06D ALG01U07C02L07D ALG02U01C03L15D CMAU01C01L01D CMAU01C05L21D CMAU10C01L02D ESSMAU01C03L09D ESSMAU01C03L10D ESSMAU01C03L11D ESSMAU03C01L02D ESSMAU06C03L14D IMA01U01C01L04D	Scientific Notation Multiplication Raising to a Power Division Exponents of Exponential Expressions Introduction Base, Rate, Percentage Basic Math: Part II Using Exponent Rules Exponents in Scientific Notation Negative Whole-Number Exponents Working with Exponents and Roots Multi-Step Word Problems (Percent Mixture) Exponents and Order of Operations
MA.9-12.12.2.1	Solve theoretical and applied problems using numbers in equivalent forms, radicals, exponents, scientific notation, absolute values, fractions, decimals, and percents, ratios and	ALG01U07C03L11D	Multiply Radicals

Section	Description	OW Lesson ID	Title
MA.9-12.12.2.1	proportions, order of operations, and properties of real numbers.		Multiply Radicals
		ALG01U07C03L12D	Divide Radicals
		ALG01U07C03L13D	Add and Subtract Radicals
		ALG01U09C02L06D	Proportions
		CMAU01C02L09D	Fractions
		CMAU01C03L14D	Consumer Applications
		CMAU01C04L16D	A Ratio Scale, Decimals, and Number Bases
		CMAU01C04L17D	Operations and Decimals
		CMAU01C05L21D	Base, Rate, Percentage
		CMAU10C01L02D	Basic Math: Part II
		ESSMAU01C01L01D	Reviewing Rational Numbers
ESSMAU06C03L14D	Multi-Step Word Problems (Percent Mixture)		
IMA01U01C01L02D	Fractions		
MA.9-12.12.2.3	Perform estimations and computations of real numbers mentally, with paper and pencil, and with technology.	CMAU01C06L24D	Mental Problem Solving
		CMAU09C02L07D	Facility Capacity Estimation
		ESSMAU05C01L03D	Estimation (1)
MA.9-12.12.3.2.B	Change miles/hours to meters/second.	CMAU01C05L21D	Base, Rate, Percentage
		ESSMAU04C01L03D	Measures of Rates and Products
MA.9-12.12.4.1	Calculate perimeter and area of two-dimensional shapes and surface area and volume of three-dimensional shapes.	CMAU09C03L12D	Solid Figures with Plane Boundaries
		CMAU09C03L13D	Solid Figures with Curved Boundaries
		CMAU10C05L22D	Geometry
		ESSMAU04C01L04D	Perimeter and Area: 2D Figures
		ESSMAU04C01L05D	Surface Area and Volume: 3D Figures
ESSMAU04C02L08D	Complex 2D Objects		

Section	Description	OW Lesson ID	Title
		ESSMAU04C02L09D	Complex 3D Objects
		GEOU07C03L15D	Solids: Prisms
		GEOU07C03L16D	Solids: Pyramids
		GEOU07C03L17D	Solids: Cylinders
MA.9-12.12.4.2.B	Create scale models.	CMAU09C03L15D	Architects and Interior Design
		ESSMAU04C01L02D	Scale Drawings and Models
		ESSMAU04C02L10D	Geometric Shapes: Scale Factors
MA.9-12.12.4.3.B	Classify shapes in terms of congruence and similarity and apply these relationships.	ESSMAU04C03L14D	Transformations and Congruent Figures
MA.9-12.12.4.3.C	Determine the effects of changing dimensions on perimeter, area, and volume.	CMAU07C04L19D	Advertisements
		CMAU09C01L05D	Perimeter and Area
		CMAU09C02L08D	Applications
		CMAU09C02L10D	Area Applications
		CMAU10C05L22D	Geometry
		ESSMAU04C01L04D	Perimeter and Area: 2D Figures
		ESSMAU04C01L05D	Surface Area and Volume: 3D Figures
		ESSMAU04C02L08D	Complex 2D Objects
MA.9-12.12.4.3.D	Investigate and deduce geometric properties using transformations such as translations, rotations, and reflections.	ALG01U08C02L06D	Transformations
		ESSMAU04C03L14D	Transformations and Congruent Figures
		GEOU09C01L04D	Isometry: Rotation
		PRCU08C03L18D	Rotation
		PRCU08C03L19D	Rotation of Equations
MA.9-12.12.4.4.A	Graph a geometric shape and determine the slope of the	CMAU07C03L11D	Graphs, Functions, Slope

Section	Description	OW Lesson ID	Title
MA.9-12.12.4.4.A	sides.		Graphs, Functions, Slope
		ESSMAU06C01L04D	Parallel Lines
		PRCU10C03L08A	Slope of a Line
MA.9-12.12.4.5	Apply right triangle trigonometry to find length and angle measures.	CMAU08C01L04D	Angles
		GEOU05C02L10D	Similar Right Triangles
		GEOU05C03L21D	Using Trigonometry in Indirect Measure
		TRGU01C01L01D	Lengths of Sides
		TRGU01C01L02D	Angle Measures
		TRGU01C01L03D	Indirect Measure
MA.9-12.12.4.6.A	Find missing angles and lengths of geometric shapes using geometric properties. (Properties may include, but are not limited to, similarity, parallel and line-transversal).	CMAU08C01L04D	Angles
		GEOU03C03L11D	Transversals and Special Angles
		GEOU03C03L12D	More Proofs: Transversals and Special Angles
		GEOU03C03L13D	Continued Proofs: Transversals and Special Angles
		GEOU03C03L14D	More Proofs for Postulates 9 and 10
		GEOU05C02L05D	Meaning of Similarity
		GEOU05C02L06D	Meaning of Similarity-Theorems
MA.9-12.12.4.7.B	Use logic statements, paragraph proof, two-column proof, or algebraic proof to arrive at a conclusion.	GEOU02C03L12D	Proof Formats: Statement of the Theorem
		GEOU02C03L13D	Proof Formats: The Figure
		GEOU02C03L15D	Proof Formats: To Prove Statement
MA.9-12.12.5.1.A	Justify the chosen sampling techniques.	ALG01U10C01L01D	Measures of Central Tendency
		ALG01U10C02L06D	Sampling and Outcomes
MA.9-12.12.5.2.A	Display data in a scatter plot, describe its shape, and	ESSMAU05C01L04D	Estimation (2)

Section	Description	OW Lesson ID	Title
MA.9-12.12.5.2.A	estimate how close the data comes to fitting an equation.		Estimation (2)
MA.9-12.12.5.2.B	Relate the slope of a regression line to the rate of change for the data set.	CMAU07C03L11D	Graphs, Functions, Slope
		ESSMAU06C01L04D	Parallel Lines
		PRCU10C03L08A	Slope of a Line
		PRCU10C03L08D	Slope of a Curve
MA.9-12.12.5.2.D	Determine the validity of predictions made from regression equations.	ALG01U10C01L03D	Interpreting Data
		ALG01U10C01P04D	Project: Data Analysis
MA.9-12.12.5.3.A	Explain the likelihood of the next event based on theoretical probabilities.	ALG01U10C02L06D	Sampling and Outcomes
		ALG01U10C03L10D	Probability
		ESSMAU02C02L05D	Outcomes
MA.9-12.12.5.4.A	Describe how adding the same amount to each score changes the mean, median, mode, range, outliers, interquartile points, maximum, and minimum.	ALG01U10C01L01D	Measures of Central Tendency
		ALG01U10C01L02D	Dispersion
		CMAU03C01L01D	Central Tendencies
		CMAU03C01L05D	Representing Data
		CMAU03C03L11D	Planning with Measures of Variations
		CMAU03C03L12D	Using the Standard Normal Distribution
		ESSMAU02C01L01D	Measures of Central Tendency
MA.9-12.12.5.4.B	Describe how dropping an outlier changes the other measures.	ALG01U10C01L02D	Dispersion
		CMAU03C01L05D	Representing Data
MA.9-12.12.5.5.A	Sketch a normal or bell curve, label one and two standard deviations from the mean and fill in approximate percents	ALG01U10C01L01D	Measures of Central Tendency

Section	Description	OW Lesson ID	Title
MA.9-12.12.5.5.A	associated with the deviations.	CMAU03C01L01D	Measures of Central Tendency
		CMAU03C03L11D	Central Tendencies
		CMAU03C03L12D	Planning with Measures of Variations
		ESSMAU02C01L01D	Using the Standard Normal Distribution
MA.9-12.12.5.5.B	Determine factors that will produce a curve that is not normal.	ESSMAU05C01L02D	Measures of Central Tendency
		ESSMAU05C01L05D	Making Conjectures
MA.9-12.12.5.5.D	Determine position or rank relative to others in a normally distributed group given the standard deviation and mean.	ALG01U10C01L01D	Inductive and Deductive Reasoning
		CMAU03C01L01D	Measures of Central Tendency
		CMAU03C03L11D	Central Tendencies
		CMAU03C03L12D	Planning with Measures of Variations
MA.9-12.12.5.6.A	Calculate probabilities using the fundamental counting principle and permutations.	ESSMAU02C01L01D	Using the Standard Normal Distribution
		ESSMAU02C01L01D	Measures of Central Tendency
		ALG01U10C02L07D	Permutations
		PRCU09C02L05D	Definitions
		PRCU09C02L06D	Permutation of N Things: Different
MA.9-12.12.6.1.A	Describe a graph by identifying intercepts, slopes, maximum, minimum, increasing, decreasing, parallel, and perpendicular.	PRCU09C02L07D	Permutation of N Things: Not All Different
		PRCU09C02L08D	Circular Permutations
		CMAU07C03L11D	Graphs, Functions, Slope
		ESSMAU06C01L04D	Parallel Lines
		PRCU10C03L08A	Slope of a Line
		PRCU10C03L08D	Slope of a Curve

Section	Description	OW Lesson ID	Title
MA.9-12.12.6.2.A	Use appropriate methods to solve linear and quadratic equations.	ALG01U08C02L05D	Quadratic Functions
		ESSMAU06C01L05D	Solutions of Linear Equations
		ESSMAU06C01L06D	Graphing Higher Power Functions
		ESSMAU06C02L09D	Solving Linear Equations
		ESSMAU06C03L12D	Multi-Step Word Problems (Rate)
		ESSMAU06C03L13D	Multi-Step Word Problems (Work)
		PRCU10C04L14D	Review Mathematics 1207 and 1208
MA.9-12.12.6.3.A	Solve systems by graphing, substitution, elimination, or matrices.	ALG01U05C02L05D	Substitution Method
		ALG01U05C02L07D	Matrices
		ESSMAU06C03L16D	System of Linear Inequalities
MA.9-12.12.6.4.A	Apply direct and indirect variations.	ALG01U03C02L08D	Direct Variation
MA.9-12.12.6.4.B	Recognize the properties of families of functions.	PRCU01C01L02D	Ordered-Pair Numbers: Functions
		PRCU10C04L11D	Review Mathematics 1201 and 1202
		PRCU10C04L12D	Review Mathematics 1203 and 1204
MA.9-12.12.6.4.D	Represent a problem in multiple formats (words, tables, graphs, and symbols).	ESSMAU05C01L06D	Solving Problems

**Standard: Standards That Are Reported**

**Grade: 12**

MA.12.12.2.1	By the end of twelfth grade, students will solve theoretical and applied problems using numbers in equivalent forms, radicals, exponents, scientific notation, absolute values, fractions, decimals, and percents, ratios and proportions, order of operations, and properties of real numbers.	CMAU01C02L09D	Fractions
		CMAU01C03L14D	Consumer Applications

Section	Description	OW Lesson ID	Title
		CMAU01C04L16D	A Ratio Scale, Decimals, and Number Bases
		CMAU01C04L17D	Operations and Decimals
		CMAU01C05L21D	Base, Rate, Percentage
		CMAU10C01L02D	Basic Math: Part II
		ESSMAU01C01L01D	Reviewing Rational Numbers
		ESSMAU06C03L14D	Multi-Step Word Problems (Percent Mixture)
		IMA01U01C01L02D	Fractions
MA.12.12.4.1	By the end of twelfth grade, students will calculate perimeter and area of two-dimensional shapes and surface area and volume of three-dimensional shapes.	CMAU09C03L12D	Solid Figures with Plane Boundaries
		CMAU09C03L13D	Solid Figures with Curved Boundaries
		CMAU10C05L22D	Geometry
		ESSMAU04C01L04D	Perimeter and Area: 2D Figures
		ESSMAU04C01L05D	Surface Area and Volume: 3D Figures
		ESSMAU04C02L08D	Complex 2D Objects
		ESSMAU04C02L09D	Complex 3D Objects
MA.12.12.4.6.a	Find missing angles and lengths of geometric shapes using geometric properties.	CMAU08C01L04D	Angles
MA.12.12.5.3.a	Explain the likelihood of the next event based on theoretical probabilities.	ESSMAU02C02L05D	Outcomes
MA.12.12.6.1.a	Describe a graph by identifying intercepts, slopes, maximum, minimum, increasing, decreasing, parallel, and perpendicular.	CMAU07C03L11D	Graphs, Functions, Slope
		ESSMAU06C01L04D	Parallel Lines
		PRCU10C03L08A	Slope of a Line
		PRCU10C03L08D	Slope of a Curve
MA.12.12.6.2.a	Use appropriate methods to solve linear and quadratic	ESSMAU06C01L05D	Solutions of Linear Equations

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Section	Description	OW Lesson ID	Title
MA.12.12.6.2.a	equations.		Solutions of Linear Equations
		ESSMAU06C01L06D	Graphing Higher Power Functions
		ESSMAU06C02L09D	Solving Linear Equations
		ESSMAU06C03L12D	Multi-Step Word Problems (Rate)
		ESSMAU06C03L13D	Multi-Step Word Problems (Work)
		PRCU10C04L14D	Review Mathematics 1207 and 1208

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