

Math

6th Grade Primary Text: Core Connections Course 1 <i>Power Standard Details: http://curriculum.4j.lane.edu/math</i>		
<u>Trimester 1</u>	<u>Trimester 2</u>	<u>Trimester 3</u>
<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> • Finding Perimeter and Area of Composite Shapes • Distributive Property via Rectangles (Using Generic Rectangles to Multiply) • Decimals • Percent • Finding equivalent Fractions • Fractions <p><u>Power Standards:</u></p> <p>6.G.1 - Find the area of composite shapes by decomposing into rectangles or other shapes.</p> <p>6.SP.4 - Display numerical data in plots on a number line, including dot plots, histograms, and box plots</p> <p>6.EE.3 - Apply the properties of operations to generate equivalent expressions.</p>	<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> • Using variables in mathematical calculations • Multiplying Fractions and Decimals • Dividing Fractions and Decimals • Area of Parallelograms/Triangles/Trapezoids • Add and subtract mixed numbers <p><u>Power Standards:</u></p> <p>6.EE.2 - Write, read, and evaluate expressions in which letters stand for numbers.</p> <p>6.EE.4 - Identify when two expressions are equivalent.</p> <p>6.EE.6 - Use variables to represent numbers and write expressions when solving a real-world or mathematical problem.</p> <p>6.RP.1 - Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities</p>	<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> • Measures of Central Tendency • Box Plots & Histograms Math 6 • Volume & SA of Rectangular Prisms • Use ratios to solve real-world problems. <p><u>Power Standards:</u> Recursive from first two trimesters</p>
7th Grade Primary Text: Core Connections Course 2 <i>Power Standard Details: http://curriculum.4j.lane.edu/math</i>		
<u>Trimester 1</u>	<u>Trimester 2</u>	<u>Trimester 3</u>
<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> • Simple Probability • Operations with Negative Integers • Operations with Negative Rational Numbers 	<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> • Ratios & Proportional Relationships • Similarity & Scale Factors • Compound Probability • Distribution & Combining Like Terms 	<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> • Part-to-Whole Relationships • Data Analysis & Sampling • 3-D Geometry (irregular prisms) • Introduction to

<p><u>Power Standards:</u></p> <ul style="list-style-type: none"> •7.SPC.5-8 (intro): Investigate chance processes and develop, use, and evaluate probability models. •7.NS.2d •7.NS.A1: Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. •7.NS.A2: Apply and extend previous understandings of multiplication and division and of fractions to multiply and divide rational numbers. •7.NS.A3: Solve real-world and mathematical problems involving the four operations with rational numbers. 	<p>•Algebraic Notation for Equation Solving</p> <p><u>Power Standards:</u></p> <ul style="list-style-type: none"> •7.RP.1: Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. •7.RP.2: Recognize and represent proportional relationships between quantities. •7.G.A.1: Solve problems involving scale drawings of geometric figures, including computing actual lengths and areas from a scale drawing and reproducing a scale drawing at a different scale. •7.SPC.5-8 (continued): Investigate chance processes and develop, use, and evaluate probability models. •7.EE.B: Solve real-life and mathematical problems using numerical and algebraic expressions and equations. 	<p>Angles</p> <p><u>Power Standards:</u></p> <ul style="list-style-type: none"> •EE.A: Use properties of operations to generate equivalent expressions. •7.RP.3: Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error. •7.G.B: Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. •7.SPA: Use random sampling to draw inferences about a population. •7.SPB: Draw informal comparative inferences about two populations. •7.G.B5: Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.
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8th Grade

Primary Text: Core Connections Course 3

Power Standard Details: <http://curriculum.4j.lane.edu/math>

<u>Trimester 1</u>	<u>Trimester 2</u>	<u>Trimester 3</u>
<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> •Simplifying with Variables/Algebra Tiles •Connecting equations/tables/graphs •Solving & Checking Equations •One/None/Infinite Solutions •Distribution <p><u>Power Standards:</u></p> <p>8.EE.5 - 7 Understand Connection between proportional relationships, lines and linear equations.</p>	<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> •Linear Equations •Solving systems of Equations •Rigid Transformations & Similarity •Creating linear equations from data <p><u>Power Standards:</u></p> <p>Geometry 8.G.1 - 4 - Understand congruence and similarity through rotations, reflections, translations and dilations. Statistics 8.SP.1 - 4 Investigate patterns of association in bivariate data 8.EE.8 Analyze and solve pairs of simultaneous linear</p>	<p><u>Essential Skills:</u></p> <ul style="list-style-type: none"> •Exponents & Scientific Notation •Angles and Transversals •Pythagorean Theorem •Surface Area & Volume of Cylinders/Pyramids Cones/Spheres <p><u>Power Standards:</u></p> <p>Geometry 8.G.6- 9 Understand and apply the Pythagorean Theorem and solve real world and mathematical problems involving volume of cylinders, cones, and spheres 8.EE.1- 4 Square roots, cube roots, scientific notation 8.NS. 1-2 Number System - approximation of</p>

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