

**Fifth Grade
Math Frameworks Correlation**

Mathematics and Economics Connections for Lfe: 3-5

Fifth Grade Correlation 3 – 5 Mathematics and Economics												
↓ Frameworks/Lessons ⇒	1	2	3	4	5	6	7	8	9	10	11	12
NUMBERS AND OPERATIONS												
Standard 1: Number Sense: Students shall understand numbers, ways of representing numbers, relationships among numbers and number systems												
Rational Numbers												
NO.1.5.1 Use models and visual representations to develop the concepts of the following: fractions (parts of unit wholes, parts of a collection, locations on number lines, locations on ruler, divisions of whole numbers); ratios (part-to-part, part-to-whole); percent (part-to-100)	X	X									X	X
NO.1.5.2 Develop understanding of decimal place value using models											X	
NO.1.5.3 Identify decimal and percent equivalents for benchmark fractions											X	
NO.1.5.4 Round and compare decimals to a given place value (whole number, tenths, hundredths)				X								
NO.1.5.5 Use models of benchmark fractions and their equivalent forms: to analyze the size of fractions; determine that simplification does not change the value of the fraction; to convert between mixed numbers and improper fractions										X		
Standard 2: Properties of Number Operations: Students shall understand meanings of operations and how they relate to one another												
Understand Operations												
NO.2.5.5 Model addition, subtraction, and multiplication of fractions with like and unlike denominators and decimals											X	

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Standard 3: Numerical Operations and Estimation: Students shall compute fluently and make reasonable estimates												
Computational Fluency												
NO.3.5.1 Develop and use a variety of algorithms with computational fluency to perform whole number operations using addition and subtraction (up to 5-digit numbers), multiplication (up to 3-digit x 2-digit), division (up to 2-digit divisor) interpreting remainders, including real world problems			X	X	X	X			X		X	X
NO.3.5.2 Develop and use algorithms: to add and subtract numbers containing decimals (up to thousandths place); to multiply decimals (hundredths x tenths); to divide decimals by whole number divisors; to add and subtract fractions with like denominators	X			X		X		X				X
NO.3.5.3 Solve, with and without appropriate technology, two-step problems using a variety of methods and tools	X	X	X	X	X	X	X	X	X	X	X	X
Standard 5: Algebraic Representations: Students shall represent and analyze mathematical situations and structures using algebraic symbols												
Expressions, Equations and Inequalities												
A.5.5.1 Model and solve simple equations by informal methods using manipulatives and appropriate technology						X						
A.5.5.3 Select, write and evaluate algebraic expressions with one variable by substitution											X	
Standard 6: Algebraic Models: Students shall develop and apply mathematical models to represent and understand quantitative relationships												
Algebraic Models and Relationships												
A.6.5.1 Draw conclusions and make predictions, with and without appropriate technology, from models, tables and line graphs	X	X	X	X	X	X		X	X		X	X

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Mathematics and Economics Connections for Life: 3-5

↓ Frameworks/Lessons ⇒	1	2	3	4	5	6	7	8	9	10	11	12
Standard 7: Analysis of Change: Students shall analyze change in various contexts												
Analyze Change												
A.7.5.1 Model and describe quantities that change using real world situations		X	X	X	X	X			X		X	X
GEOMETRY												
Standard 8: Geometric Properties: Students shall analyze characteristics and properties of 2 and 3 dimensional geometric shapes and develop mathematical arguments about geometric relationships												
Characteristics of Geometric Shapes												
G.8.5.1 Identify and model regular and irregular polygons including decagon							X					
Standard 10: Coordinate Geometry: Students shall specify locations and describe spatial relationships using coordinate geometry and other representational systems												
Coordinate Geometry												
G.10.5.1 Use geometric vocabulary (horizontal/x-axis, vertical/y-axis, ordered pairs) to describe the location and plot points in Quadrant 1								X				
MEASUREMENT												
Standard 12: Physical Attributes: Students shall use attributes of measurement to describe and compare mathematical and real-world objects												
Attributes and Tools												
M.12.5.1 Identify and select appropriate units and tools to measure			X									
Standard 13: Systems of Measurement: Students shall identify and use units, systems and processes of measurement												
Attributes and Tools												
M.13.5.1 Solve real world problems involving one elapsed time, counting forward (calendar and clock)					X				X			

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DATA ANALYSIS AND PROBABILITY												
Standard 14: Data Representation: Students shall formulate questions that can be addressed with data and collect, organize and display relevant data to answer them												
Collect, Organize and Display Data												
↓ Frameworks/Lessons ⇒	1	2	3	4	5	6	7	8	9	10	11	12
DAP.14.5.1 Develop appropriate questions for surveys		X						X				
DAP.14.5.2 Collect numerical and categorical data using surveys, observations and experiments that would result in bar graphs, line graphs, line plots and stem-and-leaf plots		X						X				
DAP.14.5.3 Construct and interpret frequency tables, charts, line plots, stem-and-leaf plots and bar graphs		X	X	X	X	X		X	X	X	X	X
Standard 15: Data Analysis: Students shall select and use appropriate statistical methods to analyze data												
Data Analysis												
DAP.15.5.1 Interpret graphs such as line graphs, double bar graphs, and circle graphs								X	X			
DAP.15.5.2 Determine, with and without appropriate technology, the range, mean, median and mode (whole number data sets) and explain what each indicates about the set of data			X									
Standard 16: Inferences and Predictions: Students shall develop and evaluate inferences and predictions that are based on data												
Data Analysis												
DAP. 16.5.1 Make predictions and justify conclusions based on data	X	X	X	X	X	X		X	X		X	X
Standard 17: Probability: Students shall understand and apply basic concepts of probability												
Data Analysis												
DAP.17.5.2 List and explain all possible outcomes in a given situation				X	X							