

Sixth Grade
Math Frameworks Correlation

Mathematics and Economics Connections for Life: Grades 6-8

↓ 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.1.6.1 Demonstrate conceptual understanding to find a specific percent of a number, using models, real-life examples, or explanations	X			X		X						X
NO.1.6.2 Find decimal and percent equivalents for proper fractions and explain why they represent the same value	X			X		X	X					X
NO.1.6.4 Convert, compare and order fractions (mixed numbers and improper fractions) decimals and percents and find their approximate locations on a number line	X			X		X						
Standard 3: Numerical Operations and Estimation: Students shall compute fluently and make reasonable estimates												
Computational Fluency												
NO.3.6.1 Apply, with and without appropriate technology, algorithms with computational fluency to perform whole number operations (+, -, x, /)				X		X		X				X
NO.3.6.2 Develop and analyze algorithms for computing with fractions (including mixed numbers) and decimals and demonstrate, with and without technology, computational fluency in their use and justify the solution								X				
NO.3.6.3 Solve, with and without appropriate technology, multi-step problems using a variety of methods and tools		X		X		X						

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Estimation												
NO.3.6.4 Estimate reasonable solutions to problem situations involving fractions and decimals						X						
Application of Computation												
NO.3.6.6 Use proportional reasoning and ratios to represent problem situations and determine the reasonableness of solutions with and without appropriate technology	X	X			X	X						
NO.3.6.7 Determine the percent of a number and solve related problems in real world situations				X		X						X
ALGEBRA												
Standard 4: Patterns, Relations and Functions: Students shall recognize, describe and develop patterns, relations and functions												
Patterns, Relations and Functions												
A.4.6.2 Interpret and write an algebraic rule for a one-operation function table										X		
Standard 5: Algebraic Representations: Students shall represent and analyze mathematical situations and structures using algebraic symbols												
Expressions, Equations and Inequalities												
A.5.6.1 Model, write and solve one-step equations by informal methods using manipulatives and appropriate technology		X										
Standard 6: Algebraic Models: Students shall develop and apply mathematical models to represent and understand quantitative relationships												
Algebraic Models and Relationships												
A.6.6.1 Complete, with and without appropriate technology, and interpret tables and line graphs that represent the relationship between two variables in quadrant 1											X	

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Standard 7: Analysis of Change: Students shall analyze change in various contexts												
A.7.6.1 Identify and compare situations with constant or varying rates of change	X									X	X	
GEOMETRY												
Standard 10: Coordinate Geometry: Students shall specify locations and describe spatial relationships using coordinate geometry and other representational systems												
Coordinate Geometry												
G.10.6.1 Use ordered pairs to plot points in quadrant 1					X			X		X	X	
MEASUREMENT												
Standard 13: Systems of Measurement: Students shall identify and use units, systems and processes of measurement												
Attributes and Tools												
M.13.6.3 Draw and measure distance to the nearest mm and 1/8 inch accurately												X
M.13.6.6 Use estimation to check the reasonableness of measurements obtained from use of various instruments (including angle measures)												X
DATA ANALYSIS AND PROBABILITY												
Standard 15: Data Analysis: Students shall select and use appropriate statistical methods to analyze data												
Data Analysis												
DAP.15.6.1 Interpret graphs such as double line graphs and circle graphs												X
DAP.15.6.2 Compare and interpret information provided by measure of central tendencies (mean, median and mode) and measures of spread (range)	X							X				X