

**Seventh Grade
Math Frameworks Correlation**

Mathematics and Economics Connections for Life: 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.1.7.1 Relate, with and without models and pictures, concepts of ratio, proportion, and percent, including percents less than 1 and greater than 100	X	X		X	X		X				X	X
NO.1.7.2 Demonstrate, with and without appropriate technology, an understanding of place value using powers of 10 and write numbers greater than one in scientific notation												X
NO.1.7.3 Convert between scientific notation and standard notation using numbers greater than one												X
NO.1.7.4 Find decimal and percent equivalents for mixed numbers and explain why they represent the same value												X
Standard 2: Properties of Number Operations: Students shall understand meanings of operations and how they relate to one another												
Understand Operations												
NO.2.7.4 Model and develop addition, subtraction, multiplication and division of integers							X					
Standard 3: Numerical Operations and Estimation: Students shall compute fluently and make reasonable estimates												
Computational Fluency												
NO.3.7.1 Compute, with and without appropriate technology, with integers and positive rational numbers using real-world situations to solve problems							X					
NO.3.7.2 Solve with and without appropriate technology, multi-step problems using a variety of methods and tools (i.e., objects, mental computation, paper and pencil)		X						X				

**Seventh Grade
Math Frameworks Correlation**

Mathematics and Economics Connections for Life: 6-8

↓ Frameworks / Lessons →	1	2	3	4	5	6	7	8	9	10	11	12
Application of Computation												
NO.3.7.6 Solve, with and without technology, real world percent problems	X			X		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.4.7.1 Create and complete a function table (input/output) using a given rule with two operations										X	X	
A.4.7.2 Identify and extend patterns in real world situations										X	X	
A.4.7.3 Interpret and write a rule for a two-operation function table										X	X	
Standard 5: Algebraic Representations: Students shall represent and analyze mathematical situations and structures using algebraic symbols												
Expressions, Equations and Inequalities												
A.5.7.1 Solve and graph one-step linear equations and inequalities using a variety of methods(hands-on, inverse operations, symbolic) with real world application with and without technology												X
A.5.7.2 Solve simple linear equations using integers and graph on a coordinate plane												X
A.5.7.3 Translate phrases and sentences into algebraic expressions and equations including parentheses and positive and rational numbers and simplify algebraic expressions by combining like terms										X		
A.5.7.4 Write and evaluate algebraic expressions using rational numbers											X	

**Seventh Grade
Math Frameworks Correlation**

Mathematics and Economics Connections for Life: 6-8

Standard 6: Algebraic Models: Students shall develop and apply mathematical models to represent and understand quantitative relationships												
Algebraic Models and Relationships												
↓ Frameworks / Lessons →	1	2	3	4	5	6	7	8	9	10	11	12
A.6.7.1 Use tables and graphs to represent linear equations by plotting, with and without appropriate technology, points in a coordinate plane			X								X	
A.6.7.2 Represent, with and without appropriate technology, linear equations by plotting and graphing points in the coordinate plane using all four quadrants given data in a table from a real world situation											X	
A.6.7.3 Create and complete a function table (input/output) using a given rule with two operations in real world situations										X	X	
Standard 7: Analysis of Change: Students shall analyze change in various contexts												
Analyze Change												
A.7.7.1 Use, with and without appropriate technology, tables and graphs to compare and identify situations with constant or varying rates of change	X				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.10.7.1 Plot points in the coordinate plane							X	X		X	X	

