

Eighth 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 3: Numerical Operations and Estimation: Students shall compute fluently and make reasonable estimates												
Computational Fluency												
NO.3.8.1 Compute, with and without appropriate technology, with rational numbers in multi-step problems		X		X							X	
NO.3.8.2 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					X	
Estimation												
NO.3.8.3 Use estimation to solve problems involving rational numbers: including ratio, proportion, percent (increase or decrease) then judge the reasonableness of solutions	X			X		X						
Application of Computation												
NO.3.8.6 Solve, with and without technology, real world percent problems including percent of increase or decrease	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.4.8.2 Using real world situations, describe patterns in words, tables, pictures, and symbolic representations										X		
A.4.8.3 Interpret and represent a two operation function as an algebraic equation			X							X	X	
A.4.8.4 Use tables, graphs, and equations to identify independent/dependent variables (input/output)			X		X					X	X	

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Standard 5: Algebraic Representations: Students shall represent and analyze mathematical situations and structures using algebraic symbols												
Expressions, Equations and Inequalities												
A.5.8.1 Solve and graph two-step equations and inequalities with one-variable and verify the reasonableness of the result with real world application with and without technology											X	
A.5.8.2 Solve and graph linear equations											X	
A.5.8.3 Translate sentences into algebraic equations and inequalities and combine like terms within polynomials										X		
Standard 6: Algebraic Models: Students shall develop and apply mathematical models to represent and understand quantitative relationships												
Algebraic Models and Relationships												
A.6.8.1 Describe, with and without appropriate technology, the relationship between the graph of a line and its equation, including being able to explain the meaning of slope as a constant rate of change (rise/run) and y-intercept in real world problems			X	X						X	X	
A.6.8.2 Represent, with and without appropriate technology, linear relationships concretely, using tables, graphs and equations										X	X	
A.6.8.3 Differentiate between independent/dependent variables given a linear relationship in context			X		X					X	X	
Standard 7: Analysis of Change: Students shall analyze change in various contexts												
Analyze Change												
A.7.8.1 Use, with and without appropriate technology, graphs of real life situations to describe the relationships and analyze change including graphs of change (cost per minute) and graphs of accumulation (total cost)					X					X	X	

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GEOMETRY												
Standard 10: Coordinate Geometry: Students shall specify locations and describe spatial relationships using coordinate geometry and other representational systems												
Coordinate Geometry												
G.10.8.1 Use coordinate geometry to explore the links between geometric and algebraic representations of problems (lengths of segments/distance between points, slope/perpendicular-parallel lines)										X	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.12.8.1 Understand, select and use, with and without appropriate technology, the appropriate units and tools to measure angles, perimeter, area, surface area and volume to solve real world problems												X
Standard 13: Systems of Measurement: Students shall identify and use units, systems and processes of measurement												
Attributes and Tools												
M.13.8.3 Apply proportional reasoning to solve problems involving indirect measurements, scale drawings or rates	X			X								
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												
DAP.14.8.2 Explain which types of display are appropriate for various data sets (scatter plot for relationship between two variants and line of best fit)			X									
DAP.14.8.3 Interpret or solve real-world problems using data from charts, line plots, stem-and-leaf plots, double-bar graphs, line graphs, box-and-whisker plots, scatter plots, frequency tables or double line graphs	X		X						X	X	X	

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Standard 15: Data Analysis: Students shall select and use appropriate statistical methods to analyze data												
Data Analysis												
DAP.15.8.2 Analyze, with and without appropriate technology, graphs by comparing measures of central tendencies and measures of spread			X						X			