

Crosswalk Between EngageNY and New York State Common Core Learning Standards Problem-Based Tasks for Algebra I

EngageNY module	Module standard(s)	Task standard(s)	Task title	Page number
Module 1: Relationships Between Quantities and Reasoning with Equations and Their Graphs	N-Q.1★	N-Q.1★ A-CED.2★	Phone Card Fine Print	1
	N-Q.2★	N-Q.1★ A-CED.2★	Investing Money	5
	N-Q.3★	N-Q.2★ N-Q.3★ A-CED.1★	Rafting and Hiking Trip	10
	A-SSE.1a★	A-SSE.1a★	Identifying Parts of an Expression in Context	14
			Deck the Deck	17
	A-SSE.1b★	A-SSE.1b★	Searching for a Greater Savings	20
			Puppy Pen	25
	A-APR.1	A-APR.1	Cabin Perimeter	139
			Architectural Area	142
	A-CED.2★	A-CED.2★	Lacrosse Stats	44
	A-CED.3★	A-CED.3★	Skate Constraints	64
	A-CED.4★	A-CED.4★	Bricklayers	70
			Selecting a Cylinder Size	74
	A-REI.1	A-REI.1	Magic Number	78
	A-REI.3	A-REI.3	Guess My Number	82
			Landlines Versus Cell Phones	85
			Singing Celebration	88

	A-REI.5	A-REI.5	Ticket Sales	110
	A-REI.6	A-REI.6	Salary Scales	116
	A-REI.10	A-REI.10	Saving for College	120
	A-REI.12	A-REI.12	Cupcakes	128
		A-REI.12	Skate Constraints Revisited	134

Module 2: Descriptive Statistics	S-ID.1★	S-ID.1★	Representing Data Sets	273
	S-ID.2★	S-ID.2★	Comparing Data Sets	280
	S-ID.3★	S-ID.3★	Family Car Trips	286
	S-ID.5★	S-ID.5★	FunZone America Survey	290
	S-ID.6a★	S-ID.6a★	Movie Buzz	297
	S-ID.6b★	S-ID.6b★	Estimating Salaries	302
	S-ID.6c★	S-ID.6c★	Lion Cub Births	308
	S-ID.7★	S-ID.7★	Learning to Speak	312
	S-ID.8★	S-ID.8★	Good and Bad Cholesterol	317
S-ID.9★	S-ID.9★	Good Cholesterol and Exercise	321	

Module 3: Linear and Exponential Functions	A-SSE.3c★	A-SSE.3c★	Options of Interest	60
	A-CED.1★	A-CED.1★	Free Checking Accounts	29
		A-CED.1★	Population Change	32
	A-REI.11★	A-REI.11★	Senior Trip	124
	F-IF.1	F-IF.1	The Private Library	145
	F-IF.2	F-IF.2	Party Time	149
	F-IF.3	F-IF.3	Which Tree Will It Be?	154
	F-IF.4★	F-IF.4★	Careful Calculations	158
	F-IF.5★	F-IF.5★		
	F-IF.6★	F-IF.6★ F-LE.1a★	Costing Up a Storm	162
F-IF.7a★	F-IF.7a★	Fund-raising Concert	172	
F-IF.9	F-IF.9	Supply and Demand	181	

		F-IF.9	Analyzing Kidney Function	186
	F-BF.1a★	F-BF.1a★	Texting for the Win	190
	F-BF.3	F-BF.3	Gym Fees	198
	F-LE.1b★ F-LE.1c★	F-IF.6★ F-LE.1b★ F-LE.1c★	Dwindling Concentrations	167
	F-LE.3★	F-LE.3★	Future Finances	205
	F-LE.5★	F-LE.5★	Cell Phone Plans	210

Module 4: Polynomial and Quadratic Expressions, Equations, and Functions	A-SSE.1b★	A-SSE.1b★	Puppy Pen	25
	A-SSE.2		See “Curve Ball” listing for A-REI.4a.	
	A-SSE.3a★	A-CED.2★ A-SSE.3a★	Parabolic Party Streamers	49
		A-CED.2★ A-SSE.3a★	It’s Show Time!	52
	A-SSE.3b★	A-CED.2★ A-SSE.3b★	Rocket Heights	56
	A-CED.1★	A-CED.1★ A-REI.4b	Time to Splash	92
	A-REI.4a	A-SSE.2 A-CED.1★ A-REI.4a A-REI.4b	Curve Ball	99
	A-REI.4b	A-CED.1★ A-REI.4a A-REI.4b	Divine Proportion	103
		A-SSE.2 A-CED.1★ A-REI.4b	On the Shelf	95

		A–SSE.2 A–CED.1★ A–REI.4b	Dancing for Charity	106
	F–IF.6★	F–IF.6★	Is the Maximum High Enough?	222
	F–IF.7a★	F–IF.7a★	How High Can a Frog Jump?	225
	F–IF.7b★	F–IF.7b★	Auto Acceleration	233
		F–IF.7b★	Bike Rentals	239
		F–IF.7b★	Stop and Go	245
	F–IF.8a	F–IF.7a★ F–IF.8a	Is the Glider Safe?	229
	F–IF.9	F–IF.9 F–LE.3★	On to Washington!	269
	F–BF.3	F–BF.3	The Catch	259
		F–BF.3	Fewer Parabolas, Please	263

Module 5: A Synthesis of Modeling with Equations and Functions	A–CED.1★	A–CED.1★	Population Change	32
		A–CED.1★	Golden Rectangles and the Golden Ratio	36
		A–CED.1★	Capping Costs	40
	F–IF.4★	F–IF.4★	One-on-One Basketball	214
	F–IF.5★	F–IF.5★	Window Washers	218
	F–BF.1a★	F–BF.1a★	To Drill or Not to Drill?	255
	F–LE.2★	F–LE.2★	Interior Angles in Polygons	201