Algebra 1 Student Progress Checklist

Unit	#	Lesson	Title	Week Starting	Topic	Date Completed	PP Completed?	Mastery
1. Representing Relationships	1	A1.1.2	Visual Patterns	Aug 26	Solving Problems With Tables			
	2	A1.1.3	More Visual Patterns		Solving Problems With Expressions			
	3	A1.1.4	Dominoes		Solving Problems With Graphs			
	4	A1.1.5	Growing Globs	Sep 2 No class on Labor Day	Patterns of Growth			
	5	A1.1.7	Exploring Equations		Growth in Tables and Equations			
			Quiz					
	6	A1.1.8	Carlos's Fish	Sep 9	Equations of Exponential Relationships			
	7	A1.1.10	Going Viral		Graphs and Exponential Relationships			
	8	A1.1.11	Predicting Diseases		Linear and Exponential Modeling			
			End Assessment					
2. Linear Equations and Inequalities	9	A1.2.1	Hang On	Sep 16	Solving Equations With Balanced Moves			
	10	A1.2.2	Working Backwards		Solving Equations With Inverse Operations			
	11	A1.2.5	Same Position		No Solution and Infinite Solutions			
	12	A1.2.6	Subway Seats	Sep 23	Representing Situations With Two-Variable Equations			
	13	A1.2.8	Shelley the Snail		Connecting Graphs and Linear Equations			
			Quiz					
	14	A1.2.10	Pizza Delivery		Representing Situations With One-Variable Inequalities			
	15	A1.2.11	Graphing Inequalities	Sep 30	Inequalities on the Number Line			
	16	A1.2.12	Solutions and Sheep		Solving One-Variable Inequalities			
	17	A1.2.13	Bracelet Budgets		Introduction to Two-Variable Inequalities			
	18	A1.2.14	All the Solutions	Oct 7	Graphing Solutions to Two-Variable Inequalities			
			Assessment					
3. Describing Data	19	A1.3.1	Survey Says		What Kinds of Data Can I Collect?			
	20	A1.3.2	Love It or Hate It		Revisiting Dot Plots and Histograms			
	21	A1.3.3	Better Weather	Oct 14	Revisiting Box Plots			
	22	A1.3.4	Shapes of Data		Describing Data Sets			
	23	A1.3.5	Quick Click		Revisiting Measures of Center			
	24	A1.3.6	Finding Desmo	Oct 21	Introduction to Standard Deviation			
	25	A1.3.8	Racecar		Comparing Data Using Median and IQR			
	26	A1.3.9	Far Out		Identifying Outliers			
			Quiz					
	27	A1.3.11	Correlation Coefficient	Oct 28	Introduction to Correlation Coefficient			
	28	A1.3.12	How Hot Is It?		Comparing Data Using Mean and Standard Deviation			
	29	A1.3.13	City Slopes		Interpreting Slope and Vertical Intercept in Context			
	30	A1.3.14	Residual Fruit	Nov 4	Residuals and Residual Plots			
	31	A1.3.15	Penguin Populations		Using Technology to Generate the Line of Best Fit			
			Assessment					
4. Describing Functions	32	A1.4.1	Mystery Rule		What Is a Function?			
	33	A1.4.2	Pricing Pizzas	Nov 11	Introducing Function Notation			
	34	A1.4.3	Toy Factory		Function Notation and Equations			
			Quiz 1					
	35	A1.4.5	Function Carnival		Creating and Interpreting Graphs of Functions			
	36	A1.4.6	Craft-a-Graph	Nov 18	Key Features of Graphs			
	37	A1.4.7	Plane, Train, and Automobile		Average Rate of Change			
	38	A1.4.8	Space Race		Comparing Graphs			
	39	A1.4.10	Elevator Stories	Dec 2	Describing Domain and Range With Inequalities			
	40	A1.4.11	Marbleslides		Graphing Functions With Restrictions			
	41	A1.4.12	Graduation Graphs		Functions in Context			
			Quiz 2					
	42	A1.4.13	Pumpkin Prices	Dec 9	Piecewise-Defined Functions, Part 1			
	43	A1.4.15	What's Your Score?		Absolute Value Functions, Part 1			
	44	A1.4.16	Absolute Value Machines		Absolute Value Functions, Part 2			
			Assessment					
			End of Semester 1					

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Unit	#	Lesson	Title	Week Starting	Topic	Date Completed	PP Completed?	Mastery
5. Systems of Linear Equations and Inequalities	45	A1.5.1	Shape It Up	Jan 13	Introduction to Systems of Equations			
	46	A1.5.2	Eliminating Shapes		Introduction to Elimination			
	47	A1.5.3	Process of Elimination		Elimination Using Equivalent Equations			
	48	A1.5.4	Solution by Substitution	Jan 20	Solving Systems by Substitution			
	49	A1.5.5	Lizard Lines		Graphing Systems of Linear Equations			
	50	A1.5.8	Electric Line Zapper		Strategically Solving Systems of Linear Equations			
			Quiz					
	51	A1.5.9	Quilts	Jan 27	Introduction to Systems of Inequalities			
	52	A1.5.10	Seeking Solutions		Solutions to Systems of Inequalities			
			Assessment					
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6. Exponential Functions	53	A1.6.1	Shape Patterns		Rate of Change and Growth Factor			
	54	A1.6.2	Under the Sea	Feb 3	Key Features in Population Growth			
	55	A1.6.4	Bank Accounts		Introducing Simple and Compound Interest			
	56	A1.6.5	Carlos and Corals		Evaluating Exponential Functions			
	57	A1.6.6	Break Through Exponentials	Feb 10	Writing Equations of Exponential Functions			
	58	A1.6.7	Growing Mold		Percent Increase and Decrease			
			Quiz					
	59	A1.6.10	Payday Loan		Revisiting Compound Interest			
	60	A1.6.11	Credit Card Compounding	Feb 17	Different Compounding Intervals			
	61	A1.6.13	Detroit's Population		Modeling Data and Goodness of Fit			
			Assessment					
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7. Quadratic Functions	62	A1.7.1	Revisiting Visual Patterns, Part 1		A New Type of pattern			
	63	A1.7.2	Revisiting Visual Patterns, Part 2	Feb 24	Expressions for Quadratic Patterns			
	64	A1.7.4	On the Fence		Quadratics in Context			
	65	A1.7.5	Stomp Rockets		Projectiles and Predictions			
	66	A1.7.6	Plenty of Parabolas	Mar 3	Key Features of Parabolas			
		A1.7.7	Robot Launch		Key Features of Graphs in Context			
	67		Quiz 1					
	68	A1.7.10	Interesting Intercepts		Intercepts in Factored and Standard Forms			
			Spring Break					
	69	A1.7.11	Parabola Zapper	Mar 17	Graphing Parabolas in Factored Form			
	70	A1.7.12	Break Through Parabolas		Building Quadratics in Factored Form			
			Quiz 2					
	71	A1.7.14	Shift and Stretch		Vertical Translations and Stretches of Quadratic Functions			
	72	A1.7.15	Vertex Form	Mar 24	Investigating Vertex Form			
	73	A1.7.16	Through the Gates		Writing Equations of Quadratic Functions			
	74	A1.7.17	Reasonable Rent		Putting It All Together			
			Assessment					
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8. Quadratic Equations	75	A1.8.1	Two Factor Multiplication	Mar 31	Rewriting Factored-Form Expressions in Standard Form			
	76	A1.8.2	Standard Feature		Patterns in Factored-Form and Standard-Form Expressions			
	77	A1.8.3	X-Factor		Factoring Quadratic Expressions			
	78	A1.8.4	Form Up	Apr 7	More Factoring Quadratic Expressions			
	79	A1.8.5	Shooting Stars		Determining the -Intercepts of Quadratic Functions			
	80	A1.8.6	Make It Zero		Solving Quadratic Equations Using the Zero-Product Property			
			Quiz					
	81	A1.8.7	Zero, One, or Two?	Apr 14	Solving Equations by Reasoning			
	82	A1.8.8	Graph to Solve		Solving Quadratic Equations by Graphing			
	83	A1.8.10	Square Dance		Factoring Quadratic Expressions			
	84	A1.8.11	Square Tactic	Apr 21	Solving by Completing the Square			
	85	A1.8.13	Formula Foundations		Introducing the Quadratic Formula			
	86	A1.8.14	Formula Fluency		Solving Quadratic Equations Using the Quadratic Formula			
	87	A1.8.15	Stomp Rockets in Space	Apr 28	Solving Quadratic Equations in Context			
	88	A1.8.17	Star Systems		Solving Systems of Linear and Quadratic Equations			
	89		Catch Up Day		TBD			
			Assessment					
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