Algebra 1 Suggested Timeline Shared Units Project 2018-2019

	Took 1. Chood Distance Time	
	Task 1: Speed, Distance, Time	1 day
	N.Q.1, N.Q.2	1 uay
	Task 2: Felicia's Drive	
		1 day
	N.Q.1, N.Q.1a, N.Q.1c, N.Q.2, N.Q.3	1 day
	Task 3: Leaky Faucet	
	N.Q.1, N.Q.1a, N.Q.1b, N.Q.1c, N.Q.2, N.Q.3	3 days
	14.Q.1, 14.Q.1a, 14.Q.1b, 14.Q.1c, 14.Q.2, 14.Q.5	
	Task 4: Dairy Barn	
	N.Q.1, N.Q.3, A.CED.2	3 days
	1(12) 1(13) 1(13)	
IInit 1	Common Formative Assessment (Tasks 1-4)	1 day
<u>Unit 1</u>	Task 5: Interpreting Algebraic Expressions	
0	A.SSE.1, A.SSE.1a, A.SSE.1b	3 days
Quantities,	Thoolis, Thoolist, Thoolist	
Expressions, and	Task 6: Building and Solving Equations 2	
Equations	A.REI.1, A.REI.3	3 days
(22 days)		
	Task 7: Yo-Yo Problem	
	A.CED.1, A.REI.3	1 days
	Task 8: Jamal and Aunt Eunice	1 day
	A.CED.1, A.REI.35	1 day
	Common Formative Assessment (Tasks 5-8)	1day
	Task 9: Solving Linear Equations and Inequalities	
	A.CED.1, A.REI.3	2 days
	Review & End-of-Unit Assessment	
••		2 days
Notes:	the matter of the condition of the Paris Boltzman	
<i>Dairy Barn</i> : If time	e is an issue the teacher may want to eliminate Problem 6.	
	Took 1. Coun and Doons	
	Task 1: Soup and Beans	1 day
	Task 1: Soup and Beans A.CED.2	1 day
Unit 2	A.CED.2	1 day
<u>Unit 2</u>	A.CED.2 Task 2: Jaden's Phone Plan	
Unit 2 Reasoning with	A.CED.2	1 day
<u>Unit 2</u>	A.CED.2 Task 2: Jaden's Phone Plan A.CED.1, A.CED. 2, A.REI.3	
Unit 2 Reasoning with	A.CED.2 Task 2: Jaden's Phone Plan A.CED.1, A.CED. 2, A.REI.3 Task 3: Paper Cups	1 days
Unit 2 Reasoning with Equations and	A.CED.2 Task 2: Jaden's Phone Plan A.CED.1, A.CED. 2, A.REI.3	
Unit 2 Reasoning with Equations and Inequalities in Two Variables	A.CED.2 Task 2: Jaden's Phone Plan A.CED.1, A.CED. 2, A.REI.3 Task 3: Paper Cups A.CED.1, A.CED. 2, A.REI.3	1 days
Unit 2 Reasoning with Equations and Inequalities in	A.CED.2 Task 2: Jaden's Phone Plan A.CED.1, A.CED. 2, A.REI.3 Task 3: Paper Cups A.CED.1, A.CED. 2, A.REI.3 Task 4: Ivy Smith Grows Up	1 days
Unit 2 Reasoning with Equations and Inequalities in Two Variables	A.CED.2 Task 2: Jaden's Phone Plan A.CED.1, A.CED. 2, A.REI.3 Task 3: Paper Cups A.CED.1, A.CED. 2, A.REI.3	1 days

A.CED.4, A.REI.1	
Common Formative Assessment (Tasks 1-5)	1 day
Task 6: Solving Systems of Linear Equations by Graphing A.REI.6	2 day
Task 7: Solving Systems of Linear Equations Algebraically A.REI.5, A.REI.6	3 day
Task 8: Solving Problems Using Systems of Equations A.CED.3, A.REI.6	2 day
Task 9: <i>The Cash Box</i> A.CED.3, A.REI.6	0 day
Common Formative Assessment (Tasks 6-9)	1 da
Task 10: Summer Job A.REI.12	2 day
Task 11: <i>Family Outing</i> A.CED.1, A.CED.2, A.CED.3, A.CED. 4, A.REI.1, A.REI.3, A.REI.5, A.REI.6, A.REI.12	2 day
Review & End-of-Unit Assessment	2 day

Notes:

Task 9: *Cash Box* –may be used as extra practice, homework, formative assessment, etc. Do not skip it.
Task 11: Family Outing - may be used as unit review.

	Task 1: <i>Exploring Functions with Fiona</i> F.IF.1, F.IF.2 F.IF.4, F.IF.5, F.IF.6	3 day
	Task 2: Linear Functions A.REI.10, F.IF.1, F.IF.2, F.IF.4, F.BF.1, F.BF.1a, F.LE.1b, F.LE.2, F.LE.5, A.CED.1, A.CED.2	2 days
Unit 3 Linear Functions (17 days)	Task 3: <i>Talk Is Cheap</i> A.REI.10, F.IF.1, F.IF.2, F.IF.4, F.IF.5, F.IF.7, F.IF.2, F.BF.1, F.BF.1a, F.LE.1b, F.LE.2, A.CED.2	2 days
	Common Formative Assessment (Tasks 1-3)	1 day
	Task 4: <i>You're Toast Dude</i> A.REI.10, F.IF.1, F.IF.2, F.IF.4, F.IF.5, F.IF.6, F.IF.7, F.BF.1, F.BF.1a, F.LE.1b, F.LE.2, A.CED.1, A.CED.2, A.REI.3	2 days
	Task 5: <i>Draining Pools</i> A.REI.10, F.IF.1, F.IF.2, F.IF.4, F.BF.1, F.BF.1a, F.LE.1b, F.LE.2,	1 day

Review & End-of-Unit Assessment	2 days
Common Formative Assessment (Tasks 4-6)	1 day
Task 6: <i>Sequences as Functions</i> A.REI.10, F.IF.1, F.IF.2, F.IF.3, F.IF.4, F.IF.5, F.IF.7, F.BF.1, F.BF.1a, F.BF.2, F.LE.1b, F.LE.2, F.LE.5, A.CED.1, A.REI.3	3 days
F.LE.5, A.CED.1, A.REI.3	

Notes:

Task 4: You're Toast Dude – If time is an issue, Problems 7 and 8 may be omitted.

Task 5: Draining Pools may be used as formative assessment. Do not skip.

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	Task 1: Marshmallow Catapult	4.1
	SID 6, SID 6a	1 day
	Task 2: <i>Marshmallow Catapult: Finding a Function</i> SID 6, SID 6a, FIF 4, FIF 5	2 days
	Task 3 Standard Form of a Quadratic Function FIF 4, FIF 5, FIF 7, FIF 7a, BF1	2 days
	Task 4: Party Like a Rock Star FIF 6	2 days
	Task 5: Fireworks Celebration FIF 4, FIF 5, FIF 7, FIF 7a	1 day
<u>Unit 4</u>	Common Formative Assessment (Tasks 1-5)	1 day
Exploring Quadratic Functions	Task 6: Investigating Translations FIF 7, FIF 7a, FBF 3	2 days
(32 days)	Task 7: Reflections, Stretches, and Shrinks FIF 7, FIF 7a, FBF 3	2 days
	Task 8: Combining Transformations FIF 7, FIF 7a, FBF 3	2 days
	Mid-Unit Assessment	1 day
	Task 9: The Factored Form of a Quadratic Function ASSE 2, ASSE 3, ASSE 3a, FIF 7, FIF 7a, FIF 8, FIF 8a	2 days
	Task 10: Factored to Standard Form: Multiplying Binomials APR 1, ASSE 2, ASSE 3, ASSE 3a, FIF 8, FIF 8a	1 day
	Task 11: Special Products APR 1, FIF 8, FIF 8a	1 day

Task 12: Converting from Standard to Factored Form ASSE 2, ASSE 3, ASSE 3a, FIF 7, FIF 7a, FIF 8, FIF 8a	2 days
Task 13: Solving Quadratic Equations by Factoring ASSE 2, ASSE 3, ASSE 3a, ACED 1, ACED 2, AREI 4, AREI 4b	2 days
Task 14: Converting from Standard to Vertex Form Using the Axis of Symmetry ASSE 3, ASSE 3b, FIF 7, FIF 7a, FIF 8, FIF 8a	2 days
Common Formative Assessment (Tasks 9-14)	1 day
Task 15: Converting from Standard to Vertex Form by Completing the Square ASSE 3b, FIF 8, FIF 8a	2 days
Task 16: <i>Forming Quadratics</i> FIF 7, FIF 7a, FIF 8, FIF 8a	1 day
Review & End-of-Unit Assessment	2 days

Notes

Task 5: *Fireworks Celebration* – may be used as practice, homework or performance task in preparation for the CFA

Task 7: *Reflections, Stretches, and Shifts* – may want to complete Sets A and B in class and Set C for homework

Task 8: *Combining Transformations* – may be used as a performance task or check for understanding in preparation for the CFA

Task 1: <i>Projectile Motion</i> FIF 4, FIF 5, FIF 7, FIF 7a, ACED 1	1 day
Task 2: Factoring Quadratic Trinomials APR 1, ASSE 2, ASSE 3, ASSE 3a	2 days
Task 3 Factoring Algebraic Expressions APR 1, ASSE 2, ASSE 3, ASSE 3a	2 days
Task 4: Solving Quadratic Equations by Factoring APR1, ASSE 2, AREI 4, AREI 4b	1 day
Task 5: Examining Quadratic Relationships APR 1, ASSE 1, ASSE 1a, ASSE 1b, ASSE 2, ACED 1, AREI 4, AREI 4b	2 days
Common Formative Assessment (Tasks 1 - 5)	1 day
Task 6: <i>Rational and Irrational Numbers</i> 1 N.RN.2, N.RN.3	2 days

<u>Unit 5</u> Solving	Task 7: Why Your Calculator Does What It Does N.RN.2, N.RN.3	1 day
Quadratic Equations	Task 8: <i>Rational and Irrational Numbers</i> 2 N.RN.2, N.RN.3	2 days
(22 4)	Common Formative Assessment (Tasks 6 - 8)	1 day
(22 days)	Task 9: Solving Equations by Extractions of Roots AREI 4, AREI 4b, FIF 7, FIF 7a	1 day
	Task 10: Solving Quadratic Equations by Completing the Square ASSE 2, ASSE 3b, AREI 4, AREI 4a, AREI 4b, FIF 7, FIF 7a	1 day
	Task 11: Solving Quadratic Equations Using the Quadratic Formula AREI 4, AREI 4a, AREI 4b	2 days
	Task 12: <i>The Nature of Solutions</i> AREI 4, AREI 4a, AREI 4b	1 day
	Review & End-of-Unit Assessment	2 days
	Task 1: Properties of Exponents Revisited Review of prerequisite content	1 day
	Task 2: Who Wants to Be a Millionaire? CED 1, CED 2, REI 10, IF 1, IF 2, IF 4, IF 5, IF 6, IF 7, IF 7e, FBF 1, FLE 2	2 days
	Task 3: Graphing Exponential Functions REI 10, FIF 7, FIF 7e	1 day
<u>Unit 6</u> Exponential	Task 4: College Tuition CED 1, CED 2, FIF 1, FIF 2, FBF 1, FLE 1c, FLE 5	1 day
Functions (19 days)	Task 5: <i>Comparing Investments</i> FIF 4, FIF 7, FIF 7a, FIF 7e, FIF 9, FBF 1, FLE 1, FLE 1a, FLE 1b. FLE 1c, FLE 2, FLE 3,FLE 5	3 days
	Common Formative Assessment (Tasks 1 – 5)	1 day
	Task 6: Geometric Sequences FIF 3, FIF 5, FBF 1, FBF 1a, FBF 2	2 days
	Task 7: One Function to Another FBF 3	2 days
	Task 8: Intersection = Solutions REI 10, REI 11	1 day
	Common Formative Assessment (Tasks 6 - 8)	1 day

	Task 9: Modeling with Linear and Exponential Functions FIF 4, FIF 5, BF 1, FLE 1, FLE 1a, FLE 1b, FLE 1c, FLE 2, FLE 3, CED 1, CED 2	2 days
	Review & End-of-Unit Assessment	2 days
	Task 1: Sad to Mad SID 1, SID 2	2 day
	Task 2: Sampling Rectangles SID 1, SID 2, SID 3	3 days
	Task 3: BMI Calculations SID 1, SID 2, SID 3	2 days
	Task 4: Reviewing Histograms SID 1, SID 2, SID 3	2 days
	Task 5: Representing Data 1: Using Frequency Graphs SID 1, SID 2, SID 3	2 days
<u>Unit 7</u>	Task 6: Representing Data 2: Using Box Plots SID 1, SID 2, SID 3	2 days
Describing Data	Common Formative Assessment (Tasks 1-6)	1 day
(23 days)	Task 7: A Transportation Referendum SID 5	2 days
	Task 8: <i>Cyber Bullying</i> SID 5	1 days
	Task 9: Birds' Eggs SID 6, SID 6a, SID 6c, SID 7	2 days
	Task 10: Linear Regression SID 6, SID 6a, SID 6c, SID 7, SID 8, SID 9	3 days
	Common Formative Assessment (Tasks 7-10)	1 day
	Task 11: Equal Salaries for Equal Work SID 6, SID 6a, SID 6c, SID 7, SID 8, SID 9	2 days
	Review & End-of-Unit Assessment	2 days
Notes: If time is an issue, the	he teacher may want to eliminate Tasks 3 and 11 (shade	d in yellow).