## ALGEBRA I CURRICULUM COURSE OUTLINE 2023 - 2024

Module 1	Expression	าร	1
STANDARD	#		
1	Lesson 1	Numerical Expressions	Skip
1	Lesson 2	Algebraic Expressions	Skip
2	Lesson 3	Properties of Real Numbers	Skip
2	Lesson 4	Distributive Property	Skip
3	Lesson 5	Expressions Involving Absolute Value	Skip
4	Lesson 6	Descriptive Modeling and Accuracy	Skip
Module 2	Equations	in One Variable	]
5	Lesson 1	Writing & Interpreting Equations	Skip
5	Lesson 2	Solving One Step Equations	Skip
5	Lesson 3	Solving Multi-Step Equations	
5	Lesson 4	Solving Equations with variables on each side	
6	Lesson 5	Solving Equations Involving Absolute Value	
7	Lesson 6	Solving Proportions	
8	Lesson 7	Using Formulas / Solving Literal Equations	

Module 3	Relations	Relations and Functions			
9	Lesson 1	Representing Relations			
9	Lesson 2	Functions			
10	Lesson 3	Linearity and Continuity of Graphs	Skip		
10	Lesson 4	Intercepts of Graphs			
10	Lesson 5	Shapes of Graphs	Skip		
10	Lesson 6	Sketching Graphs and Comparing Functions	Skip		

Module 4	Linear and	Nonlinear Functions	
11	Lesson 1	Graphing Linear Functions	
11	Lesson 2	Rate of Change and Slope	
11	Lesson 3	Slope-Intercept Form	
12	Lesson 4	Transformations of Linear Functions	skip
13	Lesson 5	Arithmetic Sequences	
14	Lesson 6	Piecewise and Step Functions	skip
15	Lesson 7	Absolute Value Functions	

## ALGEBRA I CURRICULUM COURSE OUTLINE 2021 - 2022

Module 5	Creating L	Creating Linear Equations		
16	Lesson 1	Writing Equations in Slope-Intercept Form		
16	Lesson 2	Writing Equations in Standard and Point-Slope Form		
17	Lesson 3	Scatter Plots and Lines of Fit	skip	
18	Lesson 4	Correlation and Causation	skip	
19	Lesson 5	Linear Regression	skip	
20	Lesson 6	Inverses of Linear Functions		

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	Module 6	Linear Inec	qualities	
	21	Lesson 1	Solving One-Step Inequalities	
	21	Lesson 2	Solving Multi-Step Inequalities	
	22	Lesson 3	Solving Compound Inequalities	
	22	Lesson 4	Solving Absolute Value Inequalities	
	23	Lesson 5	Graphing Inequalities in Two Variables	

of Linear Equations and Inequalities	Module 7
Graphing Systems of Equations (2nd day: TI -84)	24
Substitution Method	25
Elimination using Addition and Subtraction	25
Elimination using Multiplication	25
Systems of Inequalities	26

Module 8	Exponents	and Roots	
27	Lesson 1	Multiplication Properties of Exponents	
27	Lesson 2	Division Properties of Exponents	
27	Lesson 3	Negative Exponents	
28	Lesson 4	Rational Exponents	Skip
29	Lesson 5	Simplifying Radical Expressions	Skip
29	Lesson 6	Operations with Radical Expressions	Skip
30	Lesson 7	Exponential Equations	Skip

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Module 9	Exponenti	al Functions	
31	Lesson 1	Exponential Functions	Skip
31	Lesson 2	Transformations of Exponential Functions	Skip
32	Lesson 3	Writing Exponential Functions	Skip
33	Lesson 4	Transforming Exponential Expressions	Skip
34	Lesson 5	Geometric Sequences	Skip
35	Lesson 6	Recursive Formulas	Skip

Module 10	Polynomia	ls	
36	Lesson 1	Adding & Subtracting Polynomials	
37	Lesson 2	Multiplying Polynomials by a Monomial	
37	Lesson 3	Multiplying Polynomials	
37	Lesson 4	Special Products	
38	Lesson 5	Using the Distributive Property	
38	Lesson 6	Factoring Quadratic Trinomials	
38	Lesson 7	Factoring Special Products	

Module 11	Quadratic	Functions	]
39	Lesson 1	Graphing Quadratic Functions	
39	Lesson 2	Transformations of Quadratic Functions	Skip
40	Lesson 3	Solving Quadratic Equations by Graphing	
41	Lesson 4	Solving Quadratic Equations by Factoring	
42	Lesson 5	Solving Quadratic Eqns by Complete the Square	
43	Lesson 6	Solving Quadratic Equations by Quadratic Formula	
44	Lesson 7	Solving Systems of Linear & Quadratic Equations	
45	Lesson 8	Modeling and Curve Fitting	Skip
46	Lesson 9	Combining Functions	Skip

Module 1	2 Statistics		
47	Lesson 1	Measures of Center	Skip
48	Lesson 2	Representing Data	Skip
49	Lesson 3	Using Data	Skip
50	Lesson 4	Measures of Spread	Skip
51	Lesson 5	Distributions of Data	Skip
52	Lesson 6	Comparing Sets of Data	Skip
53	Lesson 7	Summarizing Categorical Data	Skip

## HW # # days

1	1			
2	2			
3	2			
4	1			
5	1			
6	0	0	0	
7	1			
8	1			
9	3			
10	2			
11	2			
12	2			
13	2	10	10	
14	2			
15	2			
16	2			
17	2			
18	0			
19	0	6	16	
20	2			
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24	2			
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26 2 11 27

27	2				
28	3				
29	1				
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31	0				
32	2	7		34	
33	1				
34	1				
35	2				
36	2				
37	2		8	42	
38	2				
39	1				
40	1				
41	1				
42	1		6	48	
43	1				
44	1				
45	1				
46	2				
47	3				
48	2				
49	2	3		51	

50	1		
51	2		
52	2		
53	1		
54	2		
55	2	0	51
56	2		
57	2		
58	2		
59	1		
60	2		
61	3		
62	2	14	65
63	2		
64	2		
65	1		
66	3		
67	2		
68	3		
69	2		
70	0		
71	0	15	80
70			
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74 75	U		
75 76	0		
/6	0		
77	0		
78	0		