



STAAR Item Analysis with Responses by Item

for TROY HIGH SCHOOL

Subject: Mathematics Curriculum: Algebra I Language: E Administration: 5 2014 Test Version(s): STAAR, STAAR-L
 Demographic Group(s): All Students
 Student Count: 86 Source: Admin

#	Course	Reporting Standard/Student Expectation	Correct	A/F	B/G	C/H	D/J	Other
1	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.05C - The student is expected to use, translate, and make connections among algebraic, tabular, graphical, or verbal descriptions of linear functions (R) DUAL:	C 79%	11 13%	1 1%	68 79%	6 7%	0 0%
2	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.02D - The student is expected to collect and organize data, make and interpret scatterplots (including recognizing positive, negative, or no correlation for data approximating linear situations), and model, predict, and make decisions and critical judgments in problem situations (R) DUAL:	G 73%	16 19%	63 73%	7 8%	0 0%	0 0%
3	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06A - The student is expected to develop the concept of slope as rate of change and determine slopes from graphs, tables, and algebraic representations (S) DUAL:	C 86%	5 6%	4 5%	74 86%	3 3%	0 0%
4	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01A - The student is expected to describe independent and dependent quantities in functional relationships (S) DUAL:	F 55%	47 55%	21 24%	17 20%	1 1%	0 0%
5	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.10B - The student is expected to make connections among the solutions (roots) of quadratic equations, the zeros of their related functions, and the horizontal intercepts (x-intercepts) of the graph of the function (S) DUAL:	D 48%	6 7%	34 40%	5 6%	41 48%	0 0%
6	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.08A - The student is expected to analyze situations and formulate systems of linear equations in two unknowns to solve problems (S) DUAL:	J 63%	4 5%	8 9%	19 22%	54 63%	1 1%
7	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06C - The student is expected to investigate, describe, and predict the effects of changes in m and b on the graph of $y = mx + b$ (R) DUAL:	B 94%	1 1%	81 94%	2 2%	2 2%	0 0%
8	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.04A - The student is expected to find specific function values, simplify polynomial expressions, transform and solve equations, and factor as necessary in problem situations (R) DUAL:	H 69%	13 15%	4 5%	59 69%	10 12%	0 0%

* Standard type: Green - Readiness, Blue - Supporting, Purple - Process

* Level of concern: Red - Challenging(<70%), Orange - Moderate(70-79%), Yellow - Low Risk(80-100%)



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9	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01E - The student is expected to interpret and make decisions, predictions, and critical judgments from functional relationships (R) DUAL:	C 52%	1 1%	23 27%	45 52%	15 17%	2 2%
10	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.02B - The student is expected to identify mathematical domains and ranges and determine reasonable domain and range values for given situations, both continuous and discrete (R) DUAL:	F 51%	44 51%	4 5%	36 42%	2 2%	0 0%
11	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.08B - The student is expected to solve systems of linear equations using concrete models, graphs, tables, and algebraic methods (R) DUAL:	B 36%	11 13%	31 36%	33 38%	11 13%	0 0%
12	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06F - The student is expected to interpret and predict the effects of changing slope and y-intercept in applied situations (R) DUAL:	J 59%	1 1%	29 34%	4 5%	51 59%	1 1%
13	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.10A - The student is expected to solve quadratic equations using concrete models, tables, graphs, and algebraic methods (R) DUAL:	B 70%	6 7%	60 70%	14 16%	6 7%	0 0%
14	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.07B - The student is expected to investigate methods for solving linear equations and inequalities using concrete models, graphs, and the properties of equality, select a method, and solve the equations and inequalities (R) DUAL:	3 76%	65 76%	21 24%	0 0%	0 0%	0 0%
15	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01D - The student is expected to represent relationships among quantities using concrete models, tables, graphs, diagrams, verbal descriptions, equations, and inequalities (R) DUAL:	A 43%	37 43%	21 24%	19 22%	9 10%	0 0%
16	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.02A - The student is expected to identify and sketch the general forms of linear ($y = x$) and quadratic ($y = x^2$) parent functions (S) DUAL:	G 33%	11 13%	28 33%	6 7%	41 48%	0 0%

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17	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06B - The student is expected to interpret the meaning of slope and intercepts in situations using data, symbolic representations, or graphs (R) DUAL:	D 79%	3 3%	4 5%	11 13%	68 79%	0 0%
18	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.11B - The student is expected to analyze data and represent situations involving inverse variation using concrete models, tables, graphs, or algebraic methods (S) DUAL:	H 34%	17 20%	22 26%	29 34%	17 20%	1 1%
19	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01B - The student is expected to gather and record data and use data sets to determine functional relationships between quantities (S) DUAL:	A 44%	38 44%	18 21%	18 21%	12 14%	0 0%
20	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.08B - The student is expected to solve systems of linear equations using concrete models, graphs, tables, and algebraic methods (R) DUAL:	82 30%	26 30%	60 70%	0 0%	0 0%	0 0%
21	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.09D - The student is expected to analyze graphs of quadratic functions and draw conclusions (R) DUAL:	A 57%	49 57%	9 10%	17 20%	11 13%	0 0%
22	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.05C - The student is expected to use, translate, and make connections among algebraic, tabular, graphical, or verbal descriptions of linear functions (R) DUAL:	J 31%	15 17%	18 21%	26 30%	27 31%	0 0%
23	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.03B - The student is expected to look for patterns and represent generalizations algebraically (S) DUAL:	C 43%	9 10%	6 7%	37 43%	34 40%	0 0%
24	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.10A - The student is expected to solve quadratic equations using concrete models, tables, graphs, and algebraic methods (R) DUAL:	G 48%	6 7%	41 48%	15 17%	24 28%	0 0%

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25	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.04A - The student is expected to find specific function values, simplify polynomial expressions, transform and solve equations, and factor as necessary in problem situations (R) DUAL:	D 22%	20 23%	18 21%	28 33%	19 22%	1 1%
26	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.07B - The student is expected to investigate methods for solving linear equations and inequalities using concrete models, graphs, and the properties of equality, select a method, and solve the equations and inequalities (R) DUAL:	F 42%	36 42%	21 24%	25 29%	4 5%	0 0%
27	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.05B - The student is expected to determine the domain and range for linear functions in given situations (S) DUAL:	730 51%	44 51%	42 49%	0 0%	0 0%	0 0%
28	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01D - The student is expected to represent relationships among quantities using concrete models, tables, graphs, diagrams, verbal descriptions, equations, and inequalities (R) DUAL:	G 77%	8 9%	66 77%	3 3%	9 10%	0 0%
29	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06C - The student is expected to investigate, describe, and predict the effects of changes in m and b on the graph of $y = mx + b$ (R) DUAL:	C 76%	4 5%	11 13%	65 76%	6 7%	0 0%
30	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.02C - The student is expected to interpret situations in terms of given graphs or creates situations that fit given graphs (S) DUAL:	F 73%	63 73%	2 2%	6 7%	15 17%	0 0%
31	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.07C - The student is expected to interpret and determine the reasonableness of solutions to linear equations and inequalities (S) DUAL:	D 65%	3 3%	6 7%	20 23%	56 65%	1 1%
32	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.03A - The student is expected to use symbols to represent unknowns and variables (S) DUAL:	G 74%	9 10%	64 74%	2 2%	11 13%	0 0%

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33	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.09C - The student is expected to investigate, describe, and predict the effects of changes in c on the graph of $y = ax^2 + c$ (S) DUAL:	C 87%	0 0%	6 7%	75 87%	5 6%	0 0%
34	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06G - The student is expected to relate direct variation to linear functions and solve problems involving proportional change (S) DUAL:	2.56 23%	20 23%	64 74%	0 0%	0 0%	2 2%
35	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01E - The student is expected to interpret and make decisions, predictions, and critical judgments from functional relationships (R) DUAL:	D 58%	20 23%	5 6%	11 13%	50 58%	0 0%
36	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06F - The student is expected to interpret and predict the effects of changing slope and y-intercept in applied situations (R) DUAL:	H 73%	4 5%	3 3%	63 73%	16 19%	0 0%
37	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.07B - The student is expected to investigate methods for solving linear equations and inequalities using concrete models, graphs, and the properties of equality, select a method, and solve the equations and inequalities (R) DUAL:	C 66%	13 15%	10 12%	57 66%	6 7%	0 0%
38	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06B - The student is expected to interpret the meaning of slope and intercepts in situations using data, symbolic representations, or graphs (R) DUAL:	F 49%	42 49%	4 5%	18 21%	22 26%	0 0%
39	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.02B - The student is expected to identify mathematical domains and ranges and determine reasonable domain and range values for given situations, both continuous and discrete (R) DUAL:	D 34%	17 20%	17 20%	23 27%	29 34%	0 0%
40	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.10A - The student is expected to solve quadratic equations using concrete models, tables, graphs, and algebraic methods (R) DUAL:	H 67%	8 9%	12 14%	58 67%	8 9%	0 0%

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41	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.05C - The student is expected to use, translate, and make connections among algebraic, tabular, graphical, or verbal descriptions of linear functions (R) DUAL:	D 67%	7 8%	10 12%	11 13%	58 67%	0 0%
42	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.04A - The student is expected to find specific function values, simplify polynomial expressions, transform and solve equations, and factor as necessary in problem situations (R) DUAL:	72 62%	53 62%	33 38%	0 0%	0 0%	0 0%
43	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.09D - The student is expected to analyze graphs of quadratic functions and draw conclusions (R) DUAL:	B 79%	5 6%	68 79%	1 1%	12 14%	0 0%
44	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01C - The student is expected to describe functional relationships for given problem situations and write equations or inequalities to answer questions arising from the situations (S) DUAL:	F 44%	38 44%	9 10%	13 15%	26 30%	0 0%
45	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06C - The student is expected to investigate, describe, and predict the effects of changes in m and b on the graph of $y = mx + b$ (R) DUAL:	C 57%	7 8%	7 8%	49 57%	23 27%	0 0%
46	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.08C - The student is expected to interpret and determine the reasonableness of solutions to systems of linear equations (S) DUAL:	J 53%	22 26%	3 3%	15 17%	46 53%	0 0%
47	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.04B - The student is expected to use the commutative, associative, and distributive properties to simplify algebraic expressions (S) DUAL:	A 49%	42 49%	12 14%	23 27%	9 10%	0 0%
48	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06D - The student is expected to graph and write equations of lines given characteristics such as two points, a point and a slope, or a slope and y-intercept (S) DUAL:	J 57%	19 22%	7 8%	11 13%	49 57%	0 0%

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#	Course	Reporting Standard/Student Expectation	Correct	A/F	B/G	C/H	D/J	Other
49	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.08B - The student is expected to solve systems of linear equations using concrete models, graphs, tables, and algebraic methods (R) DUAL:	B 64%	16 19%	55 64%	10 12%	5 6%	0 0%
50	Algl	Rpt Cat 5 - The student will demonstrate an understanding of quadratic and other nonlinear functions. SE: A.11A - The student is expected to use patterns to generate the laws of exponents and apply them in problem-solving situations (S) DUAL:	H 56%	2 2%	7 8%	48 56%	29 34%	0 0%
51	Algl	Rpt Cat 2 - The student will demonstrate an understanding of the properties and attributes of functions. SE: A.02D - The student is expected to collect and organize data, make and interpret scatterplots (including recognizing positive, negative, or no correlation for data approximating linear situations), and model, predict, and make decisions and critical judgments in problem situations (R) DUAL:	C 78%	5 6%	6 7%	67 78%	8 9%	0 0%
52	Algl	Rpt Cat 4 - The student will formulate and use linear equations and inequalities. SE: A.07A - The student is expected to analyze situations involving linear functions and formulate linear equations or inequalities to solve problems (S) DUAL:	J 57%	9 10%	22 26%	6 7%	49 57%	0 0%
53	Algl	Rpt Cat 3 - The student will demonstrate an understanding of linear functions. SE: A.06F - The student is expected to interpret and predict the effects of changing slope and y-intercept in applied situations (R) DUAL:	B 59%	8 9%	51 59%	9 10%	18 21%	0 0%
54	Algl	Rpt Cat 1 - The student will describe functional relationships in a variety of ways. SE: A.01E - The student is expected to interpret and make decisions, predictions, and critical judgments from functional relationships (R) DUAL:	H 79%	9 10%	3 3%	68 79%	6 7%	0 0%

* Standard type: Green - Readiness, Blue - Supporting, Purple - Process

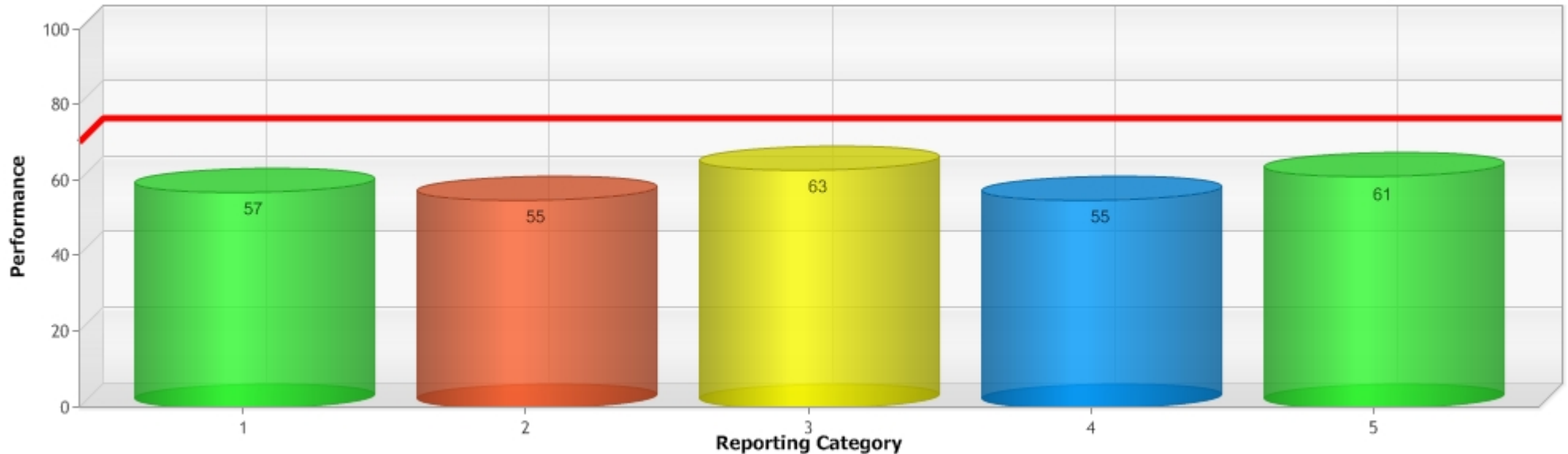
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STAAR Reporting Category Performance for TROY HIGH SCHOOL

Subject: Mathematics Curriculum: Algebra I Language: E Administration: 5 2014 Test Version(s): STAAR,STAAR-L
 Demographic Group(s): All Students
 Student Count: 86 Source: Admin

Reporting Category	Description	# of Test Points	% of Total Points	Mastery
1	The student will describe functional relationships in a variety of ways.	8	15%	57%
2	The student will demonstrate an understanding of the properties and attributes of functions.	12	22%	55%
3	The student will demonstrate an understanding of linear functions.	15	28%	63%
4	The student will formulate and use linear equations and inequalities.	10	19%	55%
5	The student will demonstrate an understanding of quadratic and other nonlinear functions.	9	17%	61%

* shaded row indicates mastery below 70%





STAAR Reporting Category SE Performance for TROY HIGH SCHOOL

Subject: Mathematics Curriculum: Algebra I Language: E Administration: 5 2014 Test Version(s): STAAR, STAAR-L

Demographic Group(s): All Students

Student Count: 86 Source: Admin

Reporting Category	Description	Points	Mastery	SE	Std	Course	Tested	Mastery
1	The student will describe functional relationships in a variety of ways.	8	57%	A.01D	R	Algl	2	60%
				A.01E	R	Algl	3	63%
				A.01A	S	Algl	1	55%
				A.01B	S	Algl	1	44%
				A.01C	S	Algl	1	44%
2	The student will demonstrate an understanding of the properties and attributes of functions.	12	55%	A.02B	R	Algl	2	42%
				A.02D	R	Algl	2	76%
				A.04A	R	Algl	3	51%
				A.02A	S	Algl	1	33%
				A.02C	S	Algl	1	73%
				A.03A	S	Algl	1	74%
				A.03B	S	Algl	1	43%
				A.04B	S	Algl	1	49%
				A.04C	S	Algl	N/T	N/T
3	The student will demonstrate an understanding of linear functions.	15	63%	A.05C	R	Algl	3	59%
				A.06B	R	Algl	2	64%
				A.06C	R	Algl	3	76%
				A.06F	R	Algl	3	64%
				A.05A	S	Algl	N/T	N/T
				A.05B	S	Algl	1	51%
				A.06A	S	Algl	1	86%
				A.06D	S	Algl	1	57%
				A.06E	S	Algl	N/T	N/T
				A.06G	S	Algl	1	23%
4	The student will formulate and use linear equations and inequalities.	10	55%	A.07B	R	Algl	3	61%
				A.08B	R	Algl	3	43%
				A.07A	S	Algl	1	57%
				A.07C	S	Algl	1	65%
				A.08A	S	Algl	1	63%
				A.08C	S	Algl	1	53%
5	The student will demonstrate an understanding of quadratic and other nonlinear functions.	9	61%	A.09D	R	Algl	2	68%
				A.10A	R	Algl	3	62%
				A.09A	S	Algl	N/T	N/T
				A.09B	S	Algl	N/T	N/T
				A.09C	S	Algl	1	87%
				A.10B	S	Algl	1	48%
				A.11A	S	Algl	1	56%
				A.11B	S	Algl	1	34%
				A.11C	S	Algl	N/T	N/T

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