					Pre-	Number of				
Classroom			Grade-Level	Content Area		P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Fall	2023	4th Grade	Sciences	50	27	91	41	-41	1681
Classroom 2	Fall	2023	4th Grade	Social Studies	30		71	41	-41	1681
Classroom 3	Fall	2023	1st Grade	Sciences	20	19	68.42	48.42	-48.42	2344.4964
Classroom 4	Fall	2023	2nd Grade	Sciences	61.5	20		34.5	-34.5	1190.25
Classroom 5	Fall	2023	3rd Grade	Sciences	41	18		28	-28	784
Classroom 6	Fall	2023	10th Grade	Physical Education	46.1	100		40.488	-40.488	1639.278144
Classroom 7	Fall	2023	11th Grade	Art	60	78	88	28	-28	784
Classroom 8	Fall	2023	7th Grade	Sciences	6		53	47	-47	2209
Classroom 9	Fall	2023	3rd Grade	Sciences	54.54	22	86.36	31.82	-31.82	1012.5124
Classroom 10	Fall	2023	1st Grade	Music	94.5	60	93.75	-0.75	0.75	0.5625
Classroom 11	Fall	2023	1st Grade	Social Studies	85	20	94	9	-9	81
Classroom 12	Fall	2023	3rd Grade	Social Studies	16.6	23	96.2	79.6	-79.6	6336.16
Classroom 13	Fall	2023	Kindergarten	Sciences	51	9	98.81	47.81	-47.81	2285.7961
Classroom 14	Fall	2023	1st Grade	Social Studies	67	20		31	-31	961
Classroom 15	Fall	2023	3rd Grade	Sciences	66	28	80	14	-14	196
Classroom 16	Fall	2023	4th Grade	Social Studies	52.6	20	50	-2.6	2.6	6.76
Classroom 17	Fall	2023	5th Grade	Social Studies	20	16	67	47	-47	2209
Classroom 18	Fall	2023	3rd Grade	Sciences	58	28	70	12	-12	144
Classroom 19	Fall	2023	1st Grade	Sciences	82	16	93.4	11.4	-11.4	129.96
Classroom 20	Fall	2023	Kindergarten	Sciences	42.85	14	28.57	-14.28	14.28	203.9184
Classroom 21	Fall	2023	6th Grade	Sciences	5	18	80	75	-75	5625
Classroom 22	Fall	2023	8th Grade	Social Studies	53	39		32	-32	1024
Classroom 23	Fall	2023	11th Grade	English	70	70		15	-15	225
Classroom 24	Fall	2023	11th Grade	Mathematics	4.3	39	95	90.7	-90.7	8226.49
Classroom 25	Fall	2023	3rd Grade	Social Studies	56	27	83	27	-27	729
Classroom 26	Fall	2023	9th Grade	English	78.7	44	80.8	2.1	-2.1	4.41
Classroom 27	Fall	2023	9th Grade	Social Studies	18	36	87	69	-69	4761
Classroom 28	Fall	2023	Kindergarten	Social Studies	26	19	53	27	-27	729
Classroom 29	Fall	2023	3rd Grade	Sciences	40.6	24	63.5	22.9	-22.9	524.41
Classroom 30	Fall	2023	Kindergarten	Sciences	76	18	91	15	-15	225
Classroom 31	Fall	2023	3rd Grade	Social Studies	46.667	26	96.667	50	-50	2500
Classroom 32	Fall	2023	Kindergarten	Social Studies	23.6	17	47.2	23.6	-23.6	556.96
Classroom 33	Fall	2023	4th Grade	Social Studies	20	18	67	47	-47	2209
Classroom 34	Fall	2023	1st Grade	Social Studies	68.75	21	70.625	1.875	-1.875	3.515625
Classroom 35	Fall	2023	Kindergarten	Sciences	62	18	83	21	-21	441
Classroom 36	Fall	2023	10th Grade	Social Studies	34.1	126	80.94	46.84	-46.84	2193.9856
Classroom 37	Fall	2023	1st Grade	Sciences	85	21	85	0	0	0
Classroom 38	Fall	2023	12th Grade	Social Studies	19.7	57	62.7	43	-43	1849
Classroom 39	Fall	2023	3rd Grade	Art	33.333	37	91	57.667	-57.667	3325.482889
Classroom 40	Fall	2023	4th Grade	Physical Education	31.2	16		43.8	-43.8	1918.44
Classroom 41	Fall	2023	5th Grade	Social Studies	40	26		39	-39	1521
Classroom 42	Fall	2023	9th Grade	Social Studies	12	81	60	48	-48	2304
Classroom 43	Fall	2023	5th Grade	Social Studies	37.88	22	70.33	32.45	-32.45	1053.0025

Classroom 44	Fall	2023	2nd Grade	Social Studies	55	17	86	31	-31	961
Classroom 45	Fall	2023	4th Grade	Sciences	55	22	80.9	25.9	-25.9	670.81
Classroom 46	Fall	2023	8th Grade	Mathematics	55	20	82.5	77.5	-25.9 -77.5	6006.25
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Classroom 47	Fall	2023	10th Grade	Spanish	50.9	27	82	31.1	-31.1	967.21
Classroom 48	Fall	2023	5th Grade	Sciences	40	26	70.4	30.4	-30.4	924.16
Classroom 49	Fall	2023	2nd Grade	Social Studies	20	17	75	55	-55	3025
Classroom 50	Fall	2023	2nd Grade	Social Studies	47	17	55	8	-8	64
Classroom 51	Fall	2023	7th Grade	Physical Education	36	52	69	33	-33	1089
Classroom 52	Fall	2023	9th Grade	Mathematics	23	38	87	64	-64	4096
Classroom 53	Fall	2023	1st Grade	Sciences	49.28	20	70.7	21.42	-21.42	458.8164
Classroom 54	Fall	2023	10th Grade	Spanish	48	66	89.5	41.5	-41.5	1722.25
Classroom 55	Fall	2023	4th Grade	Sciences	0	15	63	63	-63	3969
Classroom 56	Fall	2023	4th Grade	Social Studies	39	9	86	47	-47	2209
Classroom 57	Fall	2023	2nd Grade	Social Studies	26	17	66	40	-40	1600
Classroom 58	Fall	2023	2nd Grade	Social Studies	42.85	24	91.6	48.75	- 48.75	2376.5625
Classroom 59	Fall	2023	3rd Grade	Sciences	53.08	26	95	41.92	-41.92	1757.2864
Classroom 60	Fall	2023	1st Grade	Sciences	50	17	58	8	-8	64
Classroom 61	Fall	2023	3rd Grade	Social Studies	24	23	85.2	61.2	-61.2	3745.44
Classroom 62	Fall	2023	Kindergarten	Sciences	86.4	21	86.4	0	0	0
Classroom 63	Fall	2023	3rd Grade	Sciences	45	14	89	44	-44	1936
Classroom 64	Fall	2023	Kindergarten	Social Studies	58	15	73	15	-15	225
Classroom 65	Fall	2023	Kindergarten	Social Studies	55	20	82.5	27.5	-27.5	756.25
Classroom 66	Fall	2023	5th Grade	Social Studies	10	22	45	35	-35	1225
Classroom 67	Fall	2023	Kindergarten	Sciences	43.75	18	84.7	40.95	-40.95	1676.9025
Classroom 68	Fall	2023	1st Grade	Sciences	50	20	100	50	-50	2500
Classroom 69	Fall	2023	2nd Grade	Social Studies	75	20	98	23	-23	529
Classroom 70	Fall	2023	Kindergarten	Sciences	46	13	69	23	-23	529
Classroom 71	Fall	2023	3rd Grade	Social Studies	38	22	92	54	-54	2916
Classroom 72	Fall	2023	1st Grade	Social Studies	63.33	27	94	30.67	-30.67	940.6489
Classroom 73	Fall	2023	2nd Grade	Social Studies	1	15	51.25	50.25	-50.25	2525.0625
Classroom 74	Fall	2023	2nd Grade	Social Studies	53.8	16	71.5	17.7	-17.7	313.29
Classroom 75	Fall	2023	3rd Grade	Sciences	35	21	77	42	-42	1764
Classroom 76	Fall	2023	1st Grade	Sciences	72	23	74	2	-2	4
Classroom 77	Fall	2023	2nd Grade	Sciences	66	19	90.1	24.1	-24.1	580.81
Classroom 78	Fall	2023	2nd Grade	Sciences	67	16	91	24	-24	576
Classroom 79	Fall	2023	2nd Grade	Sciences	76.8	22	97.14	20.34	-20.34	413.7156
Classroom 80	Fall	2023	4th Grade	Sciences	84	23	86	2	-2	4
Classroom 81	Fall	2023	5th Grade	Social Studies	36	24	81	45	-45	2025
Classroom 82	Fall	2023	2nd Grade	Sciences	65	22	83	18	-18	324
Classroom 83	Fall	2023	1st Grade	Sciences	26	21	90	64	-64	4096
Classroom 84	Fall	2023	1st Grade	Social Studies	40	25	79	39	-39	1521
Classroom 85	Fall	2023		Sciences	92	19	97	5	-5	25
Classroom 86	Fall	2023	2nd Grade	Sciences	54	23	84	30	-30	900
Classroom 87	Fall	2023	3rd Grade	Social Studies	5	23	32	27	-27	729
Classroom 88	Fall	2023	2nd Grade	Social Studies	8.5	16	59	50.5	-50.5	2550.25
Classroom 89	Fall	2023	Kindergarten		70	17	100	30.3	-30	900
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Classroom 90	Fall	2023	5th Grade	Sciences	53	11	70	17	-17	289
Classroom 91	Fall	2023	3rd Grade	Social Studies	5.78	17	59	53.22	-53.22	2832.3684
Classroom 92	Fall	2023	5th Grade	Social Studies	28	18	53.7	25.7	-25.7	660.49
Classroom 93	Fall	2023	5th Grade	Sciences	7	22	75	68	-68	4624
Classroom 94	Fall	2023	5th Grade	Social Studies	32	19	62	30	-30	900
Classroom 95	Fall	2023	5th Grade	Social Studies	19.7	37	41.35	21.65	-21.65	468.7225
Classroom 96	Fall	2023	3rd Grade	Sciences	29	22	76	47	-47	2209
Classroom 97	Fall	2023		Sciences	50	16	75	25	-25	625
Classroom 98	Fall	2023	5th Grade	Sciences	61	10	83	22	-22	484
Classroom 99	Fall	2023	2nd Grade	Sciences	82	26	95	13	-13	169
Classroom 100	Fall	2023	2nd Grade	Social Studies	12	18	21	9	-9	81
	Fall	2023	_	Social Studies	60	17	90	30	-30	900
	Fall	2023	5th Grade	Social Studies	30	27	96.6	66.6	-66.6	4435.56
	Fall	2023	5th Grade	Social Studies	9.56	23	70.4	60.84	-60.84	3701.5056
	Winter	2023		Music	67	70	91	24	-24	576
	Winter	2023	9th Grade	Social Studies	11	67	30	19	-19	361
Classroom 106	Winter	2023		Music	0	45	88	88	-88	7744
	Winter	2023	1st Grade	Art	83	55	89	6	-6	36
	Winter	2023	10th Grade	Social Studies	56.25	30	87.5	31.25	-31.25	976.5625
Classroom 109	Winter	2023	5th Grade	Art	32	23	52.8	20.8	-20.8	432.64
Classroom 110	Winter	2023	6th Grade	Music	35	25	50	15	-15	225
Classroom 111	Winter	2023		English	52.3	73	67.4	15.1	-15.1	228.01
	Winter	2023	11th Grade	Spanish	60	31	78	18	-18	324
	Winter	2023		Mathematics	0	21	79	79	-79	6241
	Winter	2023	12th Grade	Spanish	10	118	92.6	82.6	-82.6	6822.76
	Winter	2023		Music	70	20	85	15	-15	225
	Winter	2023	9th Grade	Mathematics	4	55	68	64	-64	4096
Classroom 117	Winter	2023	10th Grade	Music	38.25	31	84.54	46.29	-46.29	2142.7641
	Winter	2023		English	12	135	80	68	-68	4624
	Winter	2023	7th Grade	Music	28	16	71	43	-43	1849
Classroom 120	Winter	2023		English	73	25	82	9	-9	81
	Winter	2023		Music	35	56	77	42	-42	1764
	Winter	2023	11th Grade	English	37.5	115	68.9	31.4	-31.4	985.96
Classroom 123	Winter	2023	9th Grade	Mathematics	27	23	63	36	-36	1296
Classroom 124	Winter	2023	5th Grade	Sciences	64.8	42	96	31.2	-31.2	973.44
Classroom 125	Winter	2023	11th Grade	English	16	99	82	66	-66	4356
	Winter	2023		English	41.9	70	92.1	50.2	-50.2	2520.04
	Winter	2023		Sciences	79	22	89	10	-10	100
Classroom 128	Winter	2023	5th Grade	Social Studies	48.4	20	83	34.6	-34.6	1197.16
Classroom 129	Winter	2023	9th Grade	Social Studies	65	79	87	22	-22	484
Classroom 130	Winter	2023		Music	42	92	76	34	-34	1156
	Winter	2023	2nd Grade	Sciences	2	26	75	73	-73	5329
	Winter	2023	5th Grade	Sciences	27	22	79	52	-52	2704
Classroom 133	Winter	2023	11th Grade	Mathematics	25	26	87	62	-62	3844
	Winter	2023	3rd Grade	Sciences	67	17	85	18	-18	324
	Winter	2023	9th Grade	Sciences	20	23	61	41	-41	1681
Classroom 136	Winter	2023	4th Grade	Sciences	67	21	95	28	-28	784

Classroom 137	Mintor	2023	5th Grade	Sciences	4	18	69	65	-65	4225
		2023	7th Grade	Music	33.6	59	97.2	63.6	-63.6	4044.96
					33.6	96			-03.6 -37	
	Winter		9th Grade	Sciences	61.99	19	67 81.87	37		1369
			5th Grade	Sciences				19.88	-19.88	395.2144
			6th Grade	Sciences	62	70	70	8	-8	64
		2023	1st Grade	Sciences	43.4	16	94.7	51.3	-51.3	2631.69
		2023	12th Grade	English	65	15	72.9	7.9	-7.9	62.41
		2023	5th Grade	Sciences	22	41	59	37	-37	1369
			4th Grade	Sciences	56	17	92	36	-36	1296
			9th Grade	English	64.25	46	76.869	12.619	-12.619	159.239161
			7th Grade	Music	75.67	46	83.58	7.91	-7.91	62.5681
		2023	1st Grade	Sciences	25	17	86	61	-61	3721
		2023	2nd Grade	Sciences	55	20	85	30	-30	900
		2023	10th Grade	Mathematics	61.75	19	66	4.25	-4.25	18.0625
			Kindergarten	Sciences	94	18	100	6	-6	36
Classroom 152			6th Grade	Music	43	14	95	52	-52	2704
Classroom 153	Winter	2023	8th Grade	Social Studies	48	55	98.2	50.2	-50.2	2520.04
Classroom 154	Winter	2023	11th Grade	Music	66.11	73	90.54	24.43	-24.43	596.8249
Classroom 155	Winter	2023	3rd Grade	Social Studies	44.2	23	95.3	51.1	-51.1	2611.21
Classroom 156 \	Winter	2023	4th Grade	Sciences	21	21	78	57	-57	3249
Classroom 157	Winter	2023	3rd Grade	Sciences	71	18	89	18	-18	324
Classroom 158 \	Winter	2023	8th Grade	Music	70	37	95	25	-25	625
Classroom 159 \	Winter	2023	11th Grade	Social Studies	49	68	74	25	-25	625
Classroom 160 \	Winter	2023	10th Grade	Spanish	40.26	18	87.37	47.11	-47.11	2219.3521
Classroom 161	Winter	2023	11th Grade	English	73	22	87	14	-14	196
Classroom 162	Winter	2023	9th Grade	Social Studies	13.8	19	84.7	70.9	-70.9	5026.81
Classroom 163	Winter	2023	12th Grade	Music	33.13	33	52.46	19.33	-19.33	373.6489
Classroom 164 \	Winter	2023	10th Grade	Spanish	14	86	68.6	54.6	-54.6	2981.16
Classroom 165	Winter	2023	8th Grade	Mathematics	78.1	41	90.3	12.2	-12.2	148.84
Classroom 166 \	Winter	2023	7th Grade	Social Studies	11	113	72	61	-61	3721
Classroom 167	Winter	2023	Kindergarten	Social Studies	74	20	64	-10	10	100
Classroom 168 \	Winter	2023	5th Grade	Social Studies	40	18	70	30	-30	900
Classroom 169	Winter	2023	3rd Grade	Sciences	27	18	94	67	-67	4489
Classroom 170	Winter	2023	3rd Grade	Social Studies	36	15	63	27	-27	729
Classroom 171	Winter	2023	7th Grade	English	49.8	20	84.2	34.4	-34.4	1183.36
	Winter	2023	4th Grade	Sciences	58	20	93	35	-35	1225
			5th Grade	Social Studies	19	24	81	62	-62	3844
Classroom 174			5th Grade	Social Studies	1.5	21	62.5	61	-61	3721
Classroom 175	Winter	2023	8th Grade	English	50	118	75	25	-25	625
	Winter		4th Grade	Sciences	59	20	82	23	-23	529
			4th Grade	Sciences	17.73	16	61.65	43.92	-43.92	1928.9664
		2023		Physical Education	65.62	16	79.76	14.14	-14.14	199.9396
		2023		Physical Education	30.4	35	93	62.6	-62.6	3918.76
			3rd Grade	Social Studies	50	12	100	50	-50	2500
Classroom 182		2023	3rd Grade	Sciences	32	21	62	30	-30	900
Classroom 183			5th Grade	Social Studies	35	19	81.75	46.75	-46.75	2185.5625

Classroom 184	Winter	2023	8th Grade	Music	62	32	90	28	-28	784
	Winter	2023	3rd Grade	Social Studies	16.25	17	75	58.75	-58.75	3451.5625
	Winter	2023	9th Grade	Sciences	43	18	77.06	34.06	-34.06	1160.0836
	Winter	2023		Mathematics	19.5	17	95.5	76	-76	5776
	Winter	2023	10th Grade	Sciences	20	110	96	76	-76	5776
	Winter	2023		Social Studies	72.3	49	87.5	15.2	-15.2	231.04
Classroom 190	Winter	2023	5th Grade	Sciences	31	23	78	47	-13.2 -47	2209
	Winter	2023		Mathematics	20	40	83	63	-47 -63	3969
	Winter	2023	10th Grade	Social Studies	30	89	80	50	-50	2500
	Winter	2023	11th Grade		33.3	44	88.3	55	-50 -55	3025
		2023	10th Grade	English		21	95.8		-13	
	Winter			French	82.8	20		13		169
	Winter	2023	9th Grade	Mathematics	26		52	26	-26	676
	Winter	2023		Social Studies	58	25	79	21	-21	441
	Winter	2023	8th Grade	Social Studies	30	90	90	60	-60	3600
	Winter	2023		English	57.778	26	75.4	17.622	-17.622	310.534884
Classroom 199	Winter	2023		Sciences	82.3	24	93.3	11	-11	121
Classroom 200	Winter	2023	7th Grade	Social Studies	48	70	80	32	-32	1024
	Winter	2023		Social Studies	65.71	21	95.8	30.09	-30.09	905.4081
	Winter	2023	10th Grade	Sciences	10	66	88.86	78.86	-78.86	6218.8996
	Winter	2023	6th Grade	Social Studies	30	19	53	23	-23	529
Classroom 204	Winter	2023	Kindergarten		48	15	87.5	39.5	-39.5	1560.25
	Winter	2023	_	Sciences	30	19	73	43	-43	1849
	Winter	2023	1st Grade	Social Studies	90	17	93	3	-3	9
	Winter	2023		Social Studies	50	18	93	43	-43	1849
	Winter	2023	5th Grade	Sciences	36.9	22	85.7	48.8	-48.8	2381.44
Classroom 209	Winter	2023	Kindergarten	Sciences	74	16	90	16	-16	256
Classroom 210	Winter	2023	5th Grade	Social Studies	26	17	62	36	-36	1296
Classroom 211	Winter	2023	5th Grade	Sciences	36.3	16	90	53.7	-53.7	2883.69
Classroom 212	Winter	2023	2nd Grade	Social Studies	40	16	83	43	-43	1849
Classroom 213	Winter	2023	5th Grade	Sciences	23.3	20	73.25	49.95	-49.95	2495.0025
Classroom 214	Winter	2023	3rd Grade	Sciences	60	22	60	0	0	0
Classroom 215	Winter	2023	4th Grade	Social Studies	0	17	84	84	-84	7056
Classroom 216	Winter	2023	5th Grade	Social Studies	15.82	18	37.96	22.14	-22.14	490.1796
Classroom 217	Winter	2023	1st Grade	Sciences	69	17	78	9	-9	81
Classroom 218	Winter	2023	5th Grade	Sciences	67.15	21	84.66	17.51	-17.51	306.6001
Classroom 219	Winter	2023	4th Grade	Social Studies	46	22	83	37	-37	1369
Classroom 220	Winter	2023	3rd Grade	Sciences	31	26	60	29	-29	841
Classroom 221	Winter	2023	5th Grade	Social Studies	44.4	32	92.7	48.3	-48.3	2332.89
Classroom 222	Winter	2023	4th Grade	Sciences	52	23	62	10	-10	100
Classroom 223	Winter	2023	3rd Grade	Sciences	85	21	98.5	13.5	-13.5	182.25
Classroom 224	Winter	2023	3rd Grade	Social Studies	0	21	36	36	-36	1296
Classroom 225	Winter	2023	3rd Grade	Sciences	53	15	86	33	-33	1089
Classroom 226	Winter	2023	1st Grade	Sciences	40.8	23	97.4	56.6	-56.6	3203.56
	Winter	2023		Mathematics	51.2	30	75.4	24.2	-24.2	585.64
	Winter	2023	3rd Grade	Social Studies	28	23	74	46	-46	2116
Classroom 229		2023	8th Grade	Social Studies	28	57	89	61	-61	3721
Classroom 230		2023		Mathematics	8.4	76	64	55.6	-55.6	3091.36

Classroom 231		2023	Kindergarten	Sciences	62.8	14	90	27.2	-27.2	739.84
Classroom 232	Winter	2023	Kindergarten	Art	25	66	66	41	-41	1681
Classroom 233		2023	12th Grade	Music	60	12	85	25	-25	625
Classroom 234	Winter	2023	2nd Grade	Social Studies	54	20	80.6	26.6	-26.6	707.56
Classroom 235		2023	Kindergarten	Sciences	72	22	93.5	21.5	- 21.5	462.25
Classroom 236	Winter	2023	2nd Grade	Sciences	69.94	17	97.2	27.26	-27.26	743.1076
Classroom 237	Winter	2023	5th Grade	Sciences	40	32	76	36	-36	1296
Classroom 238	Winter	2023	1st Grade	Sciences	45	22	95	50	-50	2500
Classroom 239	Winter	2023	1st Grade	Social Studies	48.98	22	78.88	29.9	-29.9	894.01
Classroom 240	Winter	2023	3rd Grade	Social Studies	43	20	75	32	-32	1024
Classroom 241	Winter	2023	3rd Grade	Sciences	48	19	76	28	-28	784
Classroom 242		2023	2nd Grade	Sciences	72	20	90.5	18.5	-18.5	342.25
Classroom 243	Winter	2023	5th Grade	Social Studies	0.05	5	81.25	81.2	- 81.2	6593.44
Classroom 244	Winter	2023	5th Grade	Sciences	42	23	95	53	-53	2809

Number of K-12 Students: Average % Improvement: 7691 35.53

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}}$$

-8634.17	410504.56
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-35.53
M =Middle value	103718.92
O =Bottom Value	58806.00
P =Square root of M/O	1.33
T = (L/P)	-26.75
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N =	
Effect	-1.716

Classroom			Grade-Level	Content Area		Number of P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 13	Fall	2023	Kindergarten	Sciences	51		98.81	47.81	-47.81	2285.7961
Classroom 28	Fall	2023		Social Studies	26		53	27	-27	729
Classroom 30	Fall	2023	Kindergarten		76	18	91	15	-15	225
Classroom 32	Fall	2023	Kindergarten	Social Studies	23.6	17	47.2	23.6	-23.6	556.96
Classroom 35	Fall	2023	Kindergarten	Sciences	62		83	21	-21	441
Classroom 62	Fall	2023	Kindergarten	Sciences	86.4	21	86.4	0	0	0
Classroom 64	Fall	2023	Kindergarten	Social Studies	58			15	-15	225
Classroom 65	Fall	2023	Kindergarten	Social Studies	55	20	82.5	27.5	-27.5	756.25
Classroom 67	Fall	2023	Kindergarten	Sciences	43.75	18	84.7	40.95	-40.95	1676.9025
Classroom 70	Fall	2023	Kindergarten	Sciences	46	13	69	23	-23	529
Classroom 85	Fall	2023	Kindergarten	Sciences	92		97	5	-5	25
Classroom 89	Fall	2023	Kindergarten	Sciences	70	17	100	30	-30	900
Classroom 97	Fall	2023	Kindergarten	Sciences	50	16	75	25	-25	625
Classroom 101	Fall	2023	Kindergarten	Social Studies	60	17	90	30	-30	900
Classroom 151	Winter	2023	Kindergarten	Sciences	94		100	6	-6	36
Classroom 167	Winter	2023	Kindergarten	Social Studies	74	20	64	-10	10	100
Classroom 204	Winter	2023	Kindergarten	Sciences	48	15	87.5	39.5	-39.5	1560.25
Classroom 209	Winter	2023	Kindergarten	Sciences	74	16	90	16	-16	256
Classroom 231	Winter	2023	Kindergarten	Sciences	62.8			27.2	-27.2	739.84
Classroom 232	Winter	2023	Kindergarten		25	66	66	41	-41	1681
Classroom 235	Winter	2023	Kindergarten	Sciences	72	22	93.5	21.5	-21.5	462.25

Number of K-12 Students: Average % Improvement: 407 22.48

-472.06	14710.25
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-22.48
M =Middle value	4098.79
O =Bottom Value	420.00
P =Square root of M/O	3.12
T = (L/P)	-7.20
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.570

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 3	Fall	2023	1st Grade	Sciences	20	19	68.42	48.42	-48.42	2344.4964
Classroom 11	Fall	2023	1st Grade	Social Studies	85	20	94	9	-9	81
Classroom 14	Fall	2023	1st Grade	Social Studies	67	20	98	31	-31	961
Classroom 19	Fall	2023	1st Grade	Sciences	82	16	93.4	11.4	-11.4	129.96
Classroom 34	Fall	2023	1st Grade	Social Studies	68.75	21	70.625	1.875	-1.875	3.515625
Classroom 37	Fall	2023	1st Grade	Sciences	85	21	85	0	0	0
Classroom 53	Fall	2023	1st Grade	Sciences	49.28	20	70.7	21.42	-21.42	458.8164
Classroom 60	Fall	2023	1st Grade	Sciences	50	17	58	8	-8	64
Classroom 68	Fall	2023	1st Grade	Sciences	50		100	50	-50	2500
Classroom 72	Fall	2023	1st Grade	Social Studies	63.33	27	94	30.67	-30.67	940.6489
Classroom 76	Fall	2023	1st Grade	Sciences	72		74	2	-2	4
Classroom 83	Fall	2023	1st Grade	Sciences	26	21	90	64	-64	4096
Classroom 84	Fall	2023	1st Grade	Social Studies	40	25	79	39	-39	1521
Classroom 107	Winter	2023	1st Grade	Art	83	55	89	6	-6	36
Classroom 121	Winter	2023	1st Grade	Music	35		77	42	-42	1764
Classroom 127	Winter	2023	1st Grade	Sciences	79	22	89	10	-10	100
Classroom 142	Winter	2023	1st Grade	Sciences	43.4	16	94.7	51.3	-51.3	2631.69
Classroom 148	Winter	2023	1st Grade	Sciences	25	17	86	61	-61	3721
Classroom 206	Winter	2023	1st Grade	Social Studies	90	17	93	3	-3	9
Classroom 207	Winter	2023	1st Grade	Social Studies	50	18	93	43	-43	1849
Classroom 217	Winter	2023	1st Grade	Sciences	69	17	78	9	-9	81
Classroom 226	Winter	2023	1st Grade	Sciences	40.8	23	97.4	56.6	-56.6	3203.56
Classroom 238	Winter	2023	1st Grade	Sciences	45	22	95	50	-50	2500
Classroom 239	Winter	2023	1st Grade	Social Studies	48.98	22	78.88	29.9	-29.9	894.01

Number of K-12 Students: Average % Improvement: 551 28.27

t	$-\frac{\sum d}{N}$
	$\sum d^2 - \frac{(\sum d)^2}{N}$
	$\sqrt{\frac{N(N-1)}{N(N-1)}}$

-678.59	29893.70
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-28.27
M =Middle value	10707.13
O =Bottom Value	552.00
P =Square root of M/O	4.40
T = (L/P)	-6.42
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.310

Classroom			Crade Level	Content Area		Number of P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year		Assessed		Students	(Y)		"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 4	Fall	2023	2nd Grade	Sciences	61.5	20	96	34.5	-34.5	1190.25
Classroom 44	Fall	2023		Social Studies	55			31	-31	961
Classroom 49	Fall	2023	2nd Grade	Social Studies	20	17	75	55	-55	3025
Classroom 50	Fall	2023	2nd Grade	Social Studies	47	17	55	8	-8	64
Classroom 57	Fall	2023	2nd Grade	Social Studies	26	17	66	40	-40	1600
Classroom 58	Fall	2023	2nd Grade	Social Studies	42.85	24	91.6	48.75	-48.75	2376.5625
Classroom 69	Fall	2023	2nd Grade	Social Studies	75	20	98	23	-23	529
Classroom 73	Fall	2023	2nd Grade	Social Studies	1	15	51.25	50.25	-50.25	2525.0625
Classroom 74	Fall	2023	2nd Grade	Social Studies	53.8	16	71.5	17.7	-17.7	313.29
Classroom 77	Fall	2023	2nd Grade	Sciences	66	19	90.1	24.1	-24.1	580.81
Classroom 78	Fall	2023	2nd Grade	Sciences	67	16		24	-24	576
Classroom 79	Fall	2023	2nd Grade	Sciences	76.8	22	97.14	20.34	-20.34	413.7156
Classroom 82	Fall	2023	2nd Grade	Sciences	65	22	83	18	-18	324
Classroom 86	Fall	2023	2nd Grade	Sciences	54	23	84	30	-30	900
Classroom 88	Fall	2023	2nd Grade	Social Studies	8.5			50.5	-50.5	2550.25
Classroom 99	Fall	2023	2nd Grade	Sciences	82	26	95	13	-13	169
Classroom 100	Fall	2023	2nd Grade	Social Studies	12	18	21	9	-9	81
Classroom 131	Winter	2023	2nd Grade	Sciences	2	26	75	73	-73	5329
Classroom 149	Winter	2023	2nd Grade	Sciences	55			30	-30	900
Classroom 178	Winter	2023	2nd Grade	Physical Education	65.62	16	79.76	14.14	-14.14	199.9396
Classroom 205	Winter	2023	2nd Grade	Sciences	30	19	73	43	-43	1849
Classroom 212	Winter	2023	2nd Grade	Social Studies	40	16	83	43	-43	1849
Classroom 234		2023	2nd Grade	Social Studies	54	20	80.6	26.6	-26.6	707.56
Classroom 236	Winter	2023		Sciences	69.94			27.26	-27.26	743.1076
Classroom 242	Winter	2023	2nd Grade	Sciences	72	20	90.5	18.5	-18.5	342.25

Number of K-12 Students: Average % Improvement: 477 30.91

-772.64	30098.80
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-30.91
M =Middle value	6219.90
O =Bottom Value	600.00
P =Square root of M/O	3.22
T = (L/P)	-9.60
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.920

					Pre-	Number of				
Classroom				Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 5	Fall	2023	3rd Grade	Sciences	41	18	69	28	-28	
Classroom 9	Fall	2023	3rd Grade	Sciences	54.54	22	86.36	31.82	-31.82	
Classroom 12	Fall	2023	3rd Grade	Social Studies	16.6	23	96.2	79.6		
Classroom 15	Fall	2023	3rd Grade	Sciences	66		80	14		
	Fall	2023	3rd Grade	Sciences	58	28	70	12	-12	
Classroom 25	Fall	2023	3rd Grade	Social Studies	56	27	83	27	-27	729
Classroom 29	Fall	2023	3rd Grade	Sciences	40.6	24	63.5	22.9	-22.9	
Classroom 31	Fall	2023	3rd Grade	Social Studies	46.667	26	96.667	50	-50	
Classroom 39	Fall	2023	3rd Grade	Art	33.333	37	91	57.667	-57.667	3325.482889
Classroom 59	Fall	2023	3rd Grade	Sciences	53.08	26	95	41.92	-41.92	1757.2864
Classroom 61	Fall	2023	3rd Grade	Social Studies	24		85.2	61.2	-61.2	3745.44
Classroom 63	Fall	2023	3rd Grade	Sciences	45	14	89	44	-44	1936
Classroom 71	Fall	2023	3rd Grade	Social Studies	38	22	92	54	-54	2916
Classroom 75	Fall	2023	3rd Grade	Sciences	35	21	77	42	-42	1764
Classroom 87	Fall	2023	3rd Grade	Social Studies	5	23	32	27	-27	729
Classroom 91	Fall	2023	3rd Grade	Social Studies	5.78	17	59	53.22	-53.22	2832.3684
Classroom 96	Fall	2023	3rd Grade	Sciences	29	22	76	47	-47	2209
Classroom 115	Winter	2023	3rd Grade	Music	70	20	85	15	-15	225
Classroom 130	Winter	2023	3rd Grade	Music	42	92	76	34	-34	1156
Classroom 134	Winter	2023	3rd Grade	Sciences	67	17	85	18	-18	324
Classroom 155	Winter	2023	3rd Grade	Social Studies	44.2	23	95.3	51.1	-51.1	2611.21
Classroom 157	Winter	2023	3rd Grade	Sciences	71	18	89	18	-18	324
Classroom 169	Winter	2023	3rd Grade	Sciences	27	18	94	67	-67	4489
Classroom 170	Winter	2023	3rd Grade	Social Studies	36	15	63	27	-27	729
Classroom 180	Winter	2023	3rd Grade	Social Studies	50	12	100	50	-50	2500
Classroom 182	Winter	2023	3rd Grade	Sciences	32	21	62	30	-30	900
Classroom 185	Winter	2023	3rd Grade	Social Studies	16.25	17	75	58.75	-58.75	3451.5625
Classroom 214	Winter	2023	3rd Grade	Sciences	60	22	60	0	0	0
Classroom 220	Winter	2023	3rd Grade	Sciences	31	26	60	29	-29	841
Classroom 223	Winter	2023	3rd Grade	Sciences	85	21	98.5	13.5		
Classroom 224	Winter	2023	3rd Grade	Social Studies	0		36	36		
Classroom 225	Winter	2023	3rd Grade	Sciences	53	15	86			
Classroom 228	Winter	2023	3rd Grade	Social Studies	28	23	74	46		
Classroom 240	Winter	2023	3rd Grade	Social Studies	43	20	75			
	Winter	2023	3rd Grade	Sciences	48					
5.200100111 Z-11		_0_0	5.4 0.440	2 3.3.1000	10	10	10	20	20	104

33	814
	$\frac{\sum d}{N}$
	$L = \frac{1}{\sqrt{\sum d^2 - \frac{(\sum d)^2}{N}}}$
	$\sqrt{\frac{N(N-1)}{N(N-1)}}$

Number of K-12 Students:	Average % Improvement:	-1279.68	57482.68
814	36.56	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
		L =Top Value (∑d/N)	-36.56
		M =Middle value	10694.88
Σd		O =Bottom Value	1190.00
N		P =Square root of M/O	3.00
=	7.72	T = (L/P)	-12.20
$\int \Sigma d^2 - \frac{\Omega}{2}$	$(\mathbf{Z}d)^2$	∞ = 0.05	Critical T = 1.645
1/	<u>N</u>		Significant
V N(N-1)	(1)	T/Square Root of N =	2.062
•		Effect	-2.062

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Fall	2023	4th Grade	Sciences	50	27	91	41	-41	1681
Classroom 2	Fall	2023	4th Grade	Social Studies	30	22	71	41	-41	1681
Classroom 33	Fall	2023	4th Grade	Social Studies	20	18	67	47	-47	2209
Classroom 40	Fall	2023	4th Grade	Physical Education	31.2	16	75	43.8	-43.8	1918.44
Classroom 45	Fall	2023	4th Grade	Sciences	55	22	80.9	25.9	-25.9	670.81
Classroom 55	Fall	2023	4th Grade	Sciences	0	15	63	63	-63	3969
Classroom 56	Fall	2023	4th Grade	Social Studies	39	9	86	47	-47	2209
Classroom 80	Fall	2023	4th Grade	Sciences	84	23	86	2	-2	4
Classroom 136	Winter	2023	4th Grade	Sciences	67	21	95	28	-28	784
Classroom 145	Winter	2023	4th Grade	Sciences	56	17	92	36	-36	1296
Classroom 156	Winter	2023	4th Grade	Sciences	21	21	78	57	-57	3249
Classroom 172	Winter	2023	4th Grade	Sciences	58	20	93	35	-35	1225
Classroom 176	Winter	2023	4th Grade	Sciences	59	20	82	23	-23	529
Classroom 177	Winter	2023	4th Grade	Sciences	17.73	16	61.65	43.92	-43.92	1928.9664
Classroom 215	Winter	2023	4th Grade	Social Studies	0	17	84	84	-84	7056
Classroom 219	Winter	2023	4th Grade	Social Studies	46	22	83	37	-37	1369
Classroom 222	Winter	2023	4th Grade	Sciences	52	23	62	10	-10	100

Number of K-12 Students: Average % Improvement: 326 39.10

-664.62	31879.22
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-39.10
M =Middle value	5895.70
O =Bottom Value	272.00
P =Square root of M/O	4.66
T = (L/P)	-8.40
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-2.037

Classroom Sample	Semester	Year	Grade-Level Assessed	Content Area Assessed	Pre- SCORE (X)	Number of P-12 Students	Post-SCORE (Y)	"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 17	Fall	2023	5th Grade	Social Studies	20		` /	47	-47	2209
Classroom 41	Fall	2023	5th Grade	Social Studies	40	26		39	-39	1521
Classroom 43	Fall	2023	5th Grade	Social Studies	37.88	22	70.33	32.45	-32.45	1053.0025
Classroom 48	Fall	2023	5th Grade	Sciences	40	26		30.4	-30.4	924.16
Classroom 66	Fall	2023	5th Grade	Social Studies	10		45	35	-35	1225
Classroom 81	Fall	2023	5th Grade	Social Studies	36		81	45	-45	2025
Classroom 90	Fall	2023	5th Grade	Sciences	53	11	70	17	-17	289
Classroom 92	Fall	2023	5th Grade	Social Studies	28	18		25.7	-25.7	660.49
Classroom 93	Fall	2023	5th Grade	Sciences	7	22	75	68	-68	4624
Classroom 94	Fall	2023	5th Grade	Social Studies	32	19		30	-30	900
Classroom 95	Fall	2023	5th Grade	Social Studies	19.7	37	41.35	21.65	-21.65	468.7225
Classroom 98	Fall	2023	5th Grade	Sciences	61	10		22	-22	484
Classroom 102	Fall	2023	5th Grade	Social Studies	30	27	96.6	66.6	-66.6	4435.56
Classroom 103	Fall	2023	5th Grade	Social Studies	9.56	23		60.84	-60.84	3701.5056
Classroom 109	Winter	2023	5th Grade	Art	32	23		20.8	-20.8	432.64
Classroom 124	Winter	2023	5th Grade	Sciences	64.8	42	96	31.2	-31.2	973.44
Classroom 128	Winter	2023	5th Grade	Social Studies	48.4	20	83	34.6	-34.6	1197.16
Classroom 132	Winter	2023	5th Grade	Sciences	27	22	79	52	-52	2704
Classroom 137	Winter	2023	5th Grade	Sciences	4	18	69	65	-65	4225
Classroom 140	Winter	2023	5th Grade	Sciences	61.99	19	81.87	19.88	-19.88	395.2144
Classroom 144	Winter	2023	5th Grade	Sciences	22	41	59	37	-37	1369
	Winter	2023	5th Grade	Social Studies	40	18	70	30	-30	900
Classroom 173	Winter	2023	5th Grade	Social Studies	19	24	81	62	-62	3844
Classroom 174	Winter	2023	5th Grade	Social Studies	1.5	21	62.5	61	-61	3721
Classroom 183	Winter	2023	5th Grade	Social Studies	35	19	81.75	46.75	-46.75	2185.5625
Classroom 190	Winter	2023	5th Grade	Sciences	31	23	78	47	-47	2209
Classroom 199	Winter	2023	5th Grade	Sciences	82.3	24	93.3	11	-11	121
Classroom 208	Winter	2023	5th Grade	Sciences	36.9	22	85.7	48.8	-48.8	2381.44
Classroom 210	Winter	2023	5th Grade	Social Studies	26	17	62	36	-36	1296
Classroom 211	Winter	2023	5th Grade	Sciences	36.3	16	90	53.7	-53.7	2883.69
Classroom 213	Winter	2023	5th Grade	Sciences	23.3	20	73.25	49.95	-49.95	2495.0025
Classroom 216	Winter	2023	5th Grade	Social Studies	15.82	18	37.96	22.14	-22.14	490.1796
Classroom 218	Winter	2023	5th Grade	Sciences	67.15	21	84.66	17.51	-17.51	306.6001
Classroom 221	Winter	2023	5th Grade	Social Studies	44.4	32	92.7	48.3	-48.3	2332.89
Classroom 237	Winter	2023	5th Grade	Sciences	40	32	76	36	-36	1296
Classroom 243	Winter	2023	5th Grade	Social Studies	0.05	5		81.2	-81.2	6593.44
Classroom 244	Winter	2023	5th Grade	Sciences	42	23	95	53	-53	2809

Number of Test	s:	= 1	N
		3	7

Number of K-12 Students: Average % Improvement: 814 40.69

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}}$$

	-1505.47	71681.70
)	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
	L =Top Value (∑d/N)	-40.69
	M =Middle value	10426.57
	O =Bottom Value	1332.00
	P =Square root of M/O	2.80
	T = (L/P)	-14.54
	∞ = 0.05	Critical T = 1.645
		Significant
	T/Square Root of N =	
	Effect	-2.391

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 8	Fall	2023	7th Grade	Sciences	6	114	53	47	-47	2209
Classroom 21	Fall	2023	6th Grade	Sciences	5	18	80	75	-75	5625
Classroom 22	Fall	2023	8th Grade	Social Studies	53	39		32	-32	1024
Classroom 46	Fall	2023	8th Grade	Mathematics	5	20	82.5	77.5	-77.5	6006.25
Classroom 51	Fall	2023	7th Grade	Physical Education	36	52	69	33	-33	1089
Classroom 106	Winter	2023	7th Grade	Music	0	45	88	88	-88	7744
Classroom 110	Winter	2023	6th Grade	Music	35	25	50	15	-15	225
Classroom 111	Winter	2023	7th Grade	English	52.3	73	67.4	15.1	-15.1	228.01
Classroom 118	Winter	2023	7th Grade	English	12	135	80	68	-68	4624
Classroom 119	Winter	2023	7th Grade	Music	28	16	71	43	-43	1849
Classroom 126	Winter	2023	7th Grade	English	41.9	70	92.1	50.2	-50.2	2520.04
Classroom 138	Winter	2023	7th Grade	Music	33.6	59	97.2	63.6	-63.6	4044.96
Classroom 141	Winter	2023	6th Grade	Sciences	62	70	70	8	-8	64
Classroom 147	Winter	2023	7th Grade	Music	75.67	46	83.58	7.91	-7.91	62.5681
Classroom 152	Winter	2023	6th Grade	Music	43	14	95	52	-52	2704
Classroom 153	Winter	2023	8th Grade	Social Studies	48	55	98.2	50.2	-50.2	2520.04
Classroom 158	Winter	2023	8th Grade	Music	70	37	95	25	-25	625
Classroom 165	Winter	2023	8th Grade	Mathematics	78.1	41	90.3	12.2	-12.2	148.84
Classroom 166	Winter	2023	7th Grade	Social Studies	11	113	72	61	-61	3721
Classroom 171	Winter	2023	7th Grade	English	49.8	20	84.2	34.4	-34.4	1183.36
Classroom 175	Winter	2023	8th Grade	English	50	118	75	25	-25	625
Classroom 184	Winter	2023	8th Grade	Music	62	32	90	28	-28	784
Classroom 197	Winter	2023	8th Grade	Social Studies	30	90	90	60	-60	3600
Classroom 200	Winter	2023	7th Grade	Social Studies	48	70	80	32	-32	1024
Classroom 203	Winter	2023	6th Grade	Social Studies	30	19	53	23	-23	529
Classroom 229	Winter	2023	8th Grade	Social Studies	28	57	89	61	-61	3721

Number of K-12 Students: Average % Improvement: 1446 41.81

-1087.11	58500.07
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-41.81
M =Middle value	13045.91
O =Bottom Value	650.00
P =Square root of M/O	4.48
T = (L/P)	-9.33
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.830

					Pre-	Number of				
Classroom			Grade-Level	Content Area	_	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 6	Fall	2023	10th Grade	Physical Education	46.1	100	` /	40.488	-40.488	1639.278144
Classroom 7	Fall	2023	11th Grade	Art	60	78		28	-28	784
Classroom 23	Fall	2023	11th Grade	English	70	70		15	-15	225
Classroom 24	Fall	2023	11th Grade	Mathematics	4.3	39		90.7	-90.7	8226.49
Classroom 26	Fall	2023	9th Grade	English	78.7	44		2.1	-2.1	4.41
Classroom 27	Fall	2023	9th Grade	Social Studies	18	36	87	69	-69	4761
Classroom 36	Fall	2023	10th Grade	Social Studies	34.1	126	80.94	46.84	-46.84	2193.9856
Classroom 38	Fall	2023	12th Grade	Social Studies	19.7	57	62.7	43	-43	1849
Classroom 42	Fall	2023	9th Grade	Social Studies	12	81	60	48	-48	2304
Classroom 47	Fall	2023	10th Grade	Spanish	50.9	27	82	31.1	-31.1	967.21
Classroom 52	Fall	2023	9th Grade	Mathematics	23	38		64	-64	4096
Classroom 54	Fall	2023	10th Grade	Spanish	48	66		41.5	-41.5	1722.25
Classroom 104	Winter	2023	10th Grade	Music	67	70	91	24	-24	576
Classroom 105	Winter	2023	9th Grade	Social Studies	11	67	30	19	-19	361
Classroom 108	Winter	2023	10th Grade	Social Studies	56.25	30	87.5	31.25	-31.25	976.5625
Classroom 112	Winter	2023	11th Grade	Spanish	60	31	78	18	-18	324
Classroom 113	Winter	2023	12th Grade	Mathematics	0	21	79	79	-79	6241
Classroom 114	Winter	2023	12th Grade	Spanish	10	118	92.6	82.6	-82.6	6822.76
Classroom 116	Winter	2023	9th Grade	Mathematics	4	55	68	64	-64	4096
Classroom 117	Winter	2023	10th Grade	Music	38.25	31	84.54	46.29	-46.29	2142.7641
Classroom 120	Winter	2023	9th Grade	English	73	25	82	9	-9	81
Classroom 122	Winter	2023	11th Grade	English	37.5	115		31.4	-31.4	985.96
Classroom 123	Winter	2023	9th Grade	Mathematics	27	23	63	36	-36	1296
Classroom 125	Winter	2023	11th Grade	English	16	99		66	-66	4356
Classroom 129	Winter	2023	9th Grade	Social Studies	65	79		22	-22	484
Classroom 133	Winter	2023	11th Grade	Mathematics	25	26	87	62	-62	3844
Classroom 135	Winter	2023	9th Grade	Sciences	20	23	61	41	-41	1681
Classroom 139	Winter	2023	9th Grade	Sciences	30	96	67	37	-37	1369
Classroom 143	Winter	2023	12th Grade	English	65	15	72.9	7.9	-7.9	62.41
Classroom 146	Winter	2023	9th Grade	English	64.25	46	76.869	12.619	-12.619	159.239161
Classroom 150	Winter	2023	10th Grade	Mathematics	61.75	19	66	4.25	-4.25	18.0625
Classroom 154	Winter	2023	11th Grade	Music	66.11	73	90.54	24.43	-24.43	596.8249
Classroom 159	Winter	2023	11th Grade	Social Studies	49	68	74	25	-25	625
Classroom 160	Winter	2023	10th Grade	Spanish	40.26	18		47.11	-47.11	2219.3521
Classroom 161	Winter	2023	11th Grade	English	73	22	87	14	-14	196
Classroom 162	Winter	2023	9th Grade	Social Studies	13.8	19	84.7	70.9	-70.9	5026.81
Classroom 163	Winter	2023	12th Grade	Music	33.13	33	52.46	19.33	-19.33	373.6489
Classroom 164	Winter	2023	10th Grade	Spanish	14	86	68.6	54.6	-54.6	2981.16
Classroom 179	Winter	2023	12th Grade	Physical Education	30.4	35	93	62.6	-62.6	3918.76
Classroom 186	Winter	2023	9th Grade	Sciences	43	18	77.06	34.06	-34.06	1160.0836
Classroom 187	Winter	2023	11th Grade	Mathematics	19.5	17		76	-76	5776
Classroom 188	Winter	2023	10th Grade	Sciences	20	110	96	76	-76	5776
	Winter	2023	11th Grade	Social Studies	72.3	49	87.5	15.2	-15.2	231.04

Classroom 191	Winter	2023	11th Grade	Mathematics	20	40	83	63	-63	3969
Classroom 192	Winter	2023	10th Grade	Social Studies	30	89	80	50	-50	2500
Classroom 193	Winter	2023	11th Grade	English	33.3	44	88.3	55	-55	3025
Classroom 194	Winter	2023	10th Grade	French	82.8	21	95.8	13	-13	169
Classroom 195		2023	9th Grade	Mathematics	26	20	52	26	-26	676
Classroom 196	Winter	2023	10th Grade	Social Studies	58	25	79	21	-21	441
Classroom 198	Winter	2023	11th Grade	English	57.778	26	75.4	17.622	-17.622	310.534884
Classroom 201	Winter	2023	11th Grade	Social Studies	65.71	21	95.8	30.09	-30.09	905.4081
Classroom 202	Winter	2023	10th Grade	Sciences	10	66	88.86	78.86	-78.86	6218.8996
Classroom 227	Winter	2023	10th Grade	Mathematics	51.2	30	75.4	24.2	-24.2	585.64
Classroom 230	Winter	2023	11th Grade	Mathematics	8.4	76	64	55.6	-55.6	3091.36
Classroom 233	Winter	2023	12th Grade	Music	60	12	85	25	-25	625

Number of K-12 Students: Average % Improvement: 2765 39.85

116046.90
"(X-Y)^2" or "ED^2"
-39.85
28714.51
2970.00
3.11
-12.82
Critical T = 1.645
Significant
-1.728

Classroom			Grade-Level	Content Area	Pre- SCORE	Number of P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 7	Fall	2023	11th Grade	Art	60	78	88	28	-28	784
Classroom 39	Fall	2023	3rd Grade	Art	33.333	37	91	57.667	-57.667	3325.482889
Classroom 104	Winter	2023	10th Grade	Music	67	70	91	24	-24	576
Classroom 106	Winter	2023	7th Grade	Music	0	45	88	88	-88	7744
Classroom 107	Winter	2023	1st Grade	Art	83	55	89	6	-6	36
Classroom 109	Winter	2023	5th Grade	Art	32	23	52.8	20.8	-20.8	432.64
Classroom 110	Winter	2023	6th Grade	Music	35	25	50	15	-15	225
Classroom 115	Winter	2023	3rd Grade	Music	70	20	85	15	-15	225
Classroom 117	Winter	2023	10th Grade	Music	38.25	31	84.54	46.29	-46.29	2142.7641
Classroom 119	Winter	2023	7th Grade	Music	28	16	71	43	-43	1849
Classroom 121	Winter	2023	1st Grade	Music	35	56	77	42	-42	1764
Classroom 130	Winter	2023	3rd Grade	Music	42	92	76	34	-34	1156
Classroom 138	Winter	2023	7th Grade	Music	33.6	59	97.2	63.6	-63.6	4044.96
Classroom 147	Winter	2023	7th Grade	Music	75.67	46	83.58	7.91	-7.91	62.5681
Classroom 152	Winter	2023	6th Grade	Music	43	14	95	52	-52	2704
Classroom 154	Winter	2023	11th Grade	Music	66.11	73	90.54	24.43	-24.43	596.8249
Classroom 158	Winter	2023	8th Grade	Music	70	37	95	25	-25	625
Classroom 163	Winter	2023	12th Grade	Music	33.13	33	52.46	19.33	-19.33	373.6489
Classroom 184	Winter	2023	8th Grade	Music	62	32	90	28	-28	784
Classroom 232	Winter	2023	Kindergarten	Art	25	66	66	41	-41	1681
Classroom 233	Winter	2023		Music	60	12	85	25	-25	625

Number of K-12 Students: Average % Improvement: 918 33.62

ement:	-706.03	31756.89
33.62	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
	L =Top Value (∑d/N)	-33.62
	M =Middle value	8020.03
	O =Bottom Value	420.00
	P =Square root of M/O	4.37
	T = (L/P)	-7.69
	∞ = 0.05	Critical T = 1.645
		Significant
	T/Square Root of N = Effect	-1.679

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 23	Fall	2023	11th Grade	English	70	70	85	15	-15	225
Classroom 26	Fall	2023	9th Grade	English	78.7	44	80.8	2.1	-2.1	4.41
Classroom 111	Winter	2023	7th Grade	English	52.3	73	67.4	15.1	-15.1	228.01
Classroom 118	Winter	2023	7th Grade	English	12	135	80	68	-68	4624
Classroom 120	Winter	2023	9th Grade	English	73	25	82	9	-9	81
Classroom 122	Winter	2023	11th Grade	English	37.5	115	68.9	31.4	-31.4	985.96
Classroom 125	Winter	2023	11th Grade	English	16	99	82	66	-66	4356
Classroom 126	Winter	2023	7th Grade	English	41.9	70	92.1	50.2	-50.2	2520.04
Classroom 143	Winter	2023	12th Grade	English	65	15	72.9	7.9	- 7.9	62.41
Classroom 146	Winter	2023	9th Grade	English	64.25	46	76.869	12.619	-12.619	159.239161
Classroom 161	Winter	2023	11th Grade	English	73	22	87	14	-14	196
Classroom 171	Winter	2023	7th Grade	English	49.8	20	84.2	34.4	-34.4	1183.36
Classroom 175	Winter	2023	8th Grade	English	50	118	75	25	-25	625
Classroom 193	Winter	2023	11th Grade	English	33.3	44	88.3	55	-55	3025
Classroom 198	Winter	2023	11th Grade	English	57.778	26	75.4	17.622	-17.622	310.534884

Number of K-12 Students: Average % Improvement: 921 28.22

+	$-\frac{\sum d}{N}$
	$-\frac{1}{\sqrt{\sum d^2 - \frac{(\sum d)^2}{N}}}$
	$\sqrt{N(N-1)}$

-423.34	18585.96
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-28.22
M =Middle value	6638.12
O =Bottom Value	210.00
P =Square root of M/O	5.62
T = (L/P)	-5.02
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.296

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 24	Fall	2023	11th Grade	Mathematics	4.3	39	95	90.7	- 90.7	8226.49
Classroom 46	Fall	2023	8th Grade	Mathematics	5	20	82.5	77.5	-77.5	6006.25
Classroom 52	Fall	2023	9th Grade	Mathematics	23	38	87	64	-64	4096
Classroom 113	Winter	2023	12th Grade	Mathematics	0	21	79	79	-79	6241
Classroom 116	Winter	2023	9th Grade	Mathematics	4	55	68	64	-64	4096
Classroom 123	Winter	2023	9th Grade	Mathematics	27	23	63	36	-36	1296
Classroom 133	Winter	2023	11th Grade	Mathematics	25	26	87	62	-62	3844
Classroom 150		2023	10th Grade	Mathematics	61.75	19	66	4.25	-4.25	18.0625
Classroom 165	Winter	2023	8th Grade	Mathematics	78.1	41	90.3	12.2	-12.2	148.84
Classroom 187	Winter	2023	11th Grade	Mathematics	19.5	17	95.5	76	-76	5776
Classroom 191	Winter	2023	11th Grade	Mathematics	20	40	83	63	-63	3969
Classroom 195	Winter	2023	9th Grade	Mathematics	26	20	52	26	-26	676
Classroom 227	Winter	2023	10th Grade	Mathematics	51.2	30	75.4	24.2	-24.2	585.64
Classroom 230	Winter	2023	11th Grade	Mathematics	8.4	76	64	55.6	- 55.6	3091.36

Number of K-12 Students: Average 9

Average % Improvement: 52.46

t	$-\frac{\sum d}{N}$
L	$\int \sum d^2 - \frac{(\sum d)^2}{N}$
	$\sqrt{\frac{N(N-1)}{N(N-1)}}$

-734.45	48070.64
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-52.46
M =Middle value	9540.87
O =Bottom Value	182.00
P =Square root of M/O	7.24
T = (L/P)	-7.25
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.936

Classroom Sample	Semester	Year			SCORE			"Y-X" Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 47	Fall	2023	10th Grade	Spanish	50.9	27	82	31.1	-31.1	967.21
Classroom 54	Fall	2023	10th Grade	Spanish	48	66	89.5	41.5	-41.5	1722.25
Classroom 112	Winter	2023	11th Grade	Spanish	60	31	78	18	-18	324
Classroom 114	Winter	2023	12th Grade	Spanish	10	118	92.6	82.6	-82.6	6822.76
Classroom 160	Winter	2023	10th Grade	Spanish	40.26	18	87.37	47.11	-47.11	2219.3521
Classroom 164	Winter	2023	10th Grade	Spanish	14	86	68.6	54.6	-54.6	2981.16
Classroom 194	Winter	2023	10th Grade	French	82.8	21	95.8	13	-13	169

Number of K-12 Students: Average % Improvement: 367 41.13

t	$-\frac{\sum d}{N}$
L	$-\frac{1}{\sqrt{\sum d^2 - \frac{(\sum d)^2}{N}}}$
	$\bigvee N(N-1)$

-287.91	15205.73
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-41.13
M =Middle value	3363.99
O =Bottom Value	42.00
P =Square root of M/O	8.95
T = (L/P)	-4.60
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.737

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 6	Fall	2023	10th Grade	Physical Education	46.1	100	86.588	40.488	-40.488	1639.278144
Classroom 40	Fall	2023	4th Grade	Physical Education	31.2	16	75	43.8	-43.8	1918.44
Classroom 51	Fall	2023	7th Grade	Physical Education	36	52	69	33	-33	1089
Classroom 178	Winter	2023	2nd Grade	Physical Education	65.62	16	79.76	14.14	-14.14	199.9396
Classroom 179	Winter	2023	12th Grade	Physical Education	30.4	35	93	62.6	-62.6	3918.76

Number of K-12 Students: Average % Improvement: 218 38.81

<i>t</i>	$-\frac{\sum d}{N}$
	$\int \frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N}$
	$\bigvee N(N-1)$

-194.03	8765.42
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-38.81
M =Middle value	1236.04
O =Bottom Value	20.00
P =Square root of M/O	7.86
T = (L/P)	-4.94
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-2.208

					Pre-	Number of				
Classroom			Grade-Level	Content Area	SCORE	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 1	Fall	2023	4th Grade	Sciences	50		91	41	-41	1681
Classroom 3	Fall	2023	1st Grade	Sciences	20	19	68.42	48.42	-48.42	2344.4964
Classroom 4	Fall	2023	2nd Grade	Sciences	61.5		96	34.5	-34.5	1190.25
Classroom 5	Fall	2023	3rd Grade	Sciences	41	18	69	28	-28	784
Classroom 8	Fall	2023	7th Grade	Sciences	6		53	47	-47	2209
Classroom 9	Fall	2023	3rd Grade	Sciences	54.54	22	86.36	31.82	-31.82	1012.5124
Classroom 13	Fall	2023	Kindergarten	Sciences	51	9	98.81	47.81	-47.81	2285.7961
Classroom 15	Fall	2023	3rd Grade	Sciences	66	28		14	-14	196
Classroom 18	Fall	2023	3rd Grade	Sciences	58	28	70	12	-12	144
Classroom 19	Fall	2023	1st Grade	Sciences	82	16	93.4	11.4	-11.4	129.96
Classroom 21	Fall	2023	6th Grade	Sciences	5			75	-75	5625
Classroom 29	Fall	2023	3rd Grade	Sciences	40.6			22.9	-22.9	524.41
Classroom 30	Fall	2023	Kindergarten	Sciences	76			15	-15	225
Classroom 35	Fall	2023	Kindergarten	Sciences	62	18	83	21	-21	441
Classroom 37	Fall	2023	1st Grade	Sciences	85	21	85	0	0	0
Classroom 45	Fall	2023	4th Grade	Sciences	55		80.9	25.9	-25.9	670.81
Classroom 48	Fall	2023	5th Grade	Sciences	40			30.4	-30.4	924.16
Classroom 53	Fall	2023	1st Grade	Sciences	49.28	20		21.42	-21.42	458.8164
Classroom 55	Fall	2023	4th Grade	Sciences	0	15		63	-63	3969
Classroom 59	Fall	2023	3rd Grade	Sciences	53.08	26		41.92	-41.92	1757.2864
Classroom 60	Fall	2023	1st Grade	Sciences	50	17	58	8	-8	64
Classroom 62	Fall	2023	Kindergarten	Sciences	86.4	21	86.4	0	0	0
Classroom 63	Fall	2023	3rd Grade	Sciences	45	14		44	-44	1936
Classroom 67	Fall	2023	Kindergarten	Sciences	43.75	18		40.95	-40.95	1676.9025
Classroom 68	Fall	2023	1st Grade	Sciences	50	20		50	-50	2500
Classroom 70	Fall	2023	Kindergarten	Sciences	46			23	-23	529
Classroom 75	Fall	2023	3rd Grade	Sciences	35		77	42	-42	1764
Classroom 76	Fall	2023	1st Grade	Sciences	72 66	23 19		L	-2 -24.1	580.81
Classroom 77 Classroom 78	Fall Fall	2023	2nd Grade 2nd Grade	Sciences Sciences	67	16		24.1 24	-24.1 -24	576
Classroom 79	Fall	2023	2nd Grade	Sciences	76.8	22		20.34	-20.34	413.7156
Classroom 80	Fall	2023	4th Grade	Sciences	84	23		20.34	-20.34	413.7130
Classroom 82	Fall	2023	2nd Grade	Sciences	65			18	-18	324
Classroom 83	Fall	2023	1st Grade	Sciences	26		90	64	-64	4096
Classroom 85	Fall	2023	Kindergarten	Sciences	92	19		5	-5	25
Classroom 86	Fall	2023	2nd Grade	Sciences	54	23		30	-30	900
Classroom 89	Fall	2023	Kindergarten	Sciences	70		100	30	-30	900
Classroom 90	Fall	2023	5th Grade	Sciences	53	11	70	17	-17	289
Classroom 93	Fall	2023	5th Grade	Sciences	7		75	68	-68	4624
Classroom 96	Fall	2023	3rd Grade	Sciences	29		76	47	-47	2209
Classroom 97	Fall	2023	Kindergarten	Sciences	50			25	-25	625
Classroom 98	Fall	2023	5th Grade	Sciences	61	10		22	-22	484
Classroom 99	Fall	2023	2nd Grade	Sciences	82			13	-13	169

Classroom 124 V	A /									
			5th Grade	Sciences	64.8	42	96	31.2	-31.2	973.44
Classroom 127 V	Ninter :	2023	1st Grade	Sciences	79	22	89	10	-10	100
Classroom 131 V	Ninter :	2023	2nd Grade	Sciences	2	26	75	73	-73	5329
Classroom 132 V	Ninter :	2023	5th Grade	Sciences	27	22	79	52	-52	2704
Classroom 134 V	Ninter :	2023	3rd Grade	Sciences	67	17	85	18	-18	324
Classroom 135 V	Ninter :	2023	9th Grade	Sciences	20	23	61	41	-41	1681
Classroom 136 V	Ninter :	2023	4th Grade	Sciences	67	21	95	28	-28	784
Classroom 137 V	Ninter :	2023	5th Grade	Sciences	4	18	69	65	-65	4225
Classroom 139 V	Ninter :	2023	9th Grade	Sciences	30	96	67	37	-37	1369
Classroom 140 V	Ninter :	2023	5th Grade	Sciences	61.99	19	81.87	19.88	-19.88	395.2144
Classroom 141 V	Ninter :	2023	6th Grade	Sciences	62	70	70	8	-8	64
Classroom 142 V	Ninter :	2023	1st Grade	Sciences	43.4	16	94.7	51.3	-51.3	2631.69
Classroom 144 V	Ninter :	2023	5th Grade	Sciences	22	41	59	37	-37	1369
Classroom 145 V	Ninter :	2023	4th Grade	Sciences	56	17	92	36	-36	1296
Classroom 148 V	Ninter :	2023	1st Grade	Sciences	25	17	86	61	-61	3721
Classroom 149 V	Ninter :	2023	2nd Grade	Sciences	55	20	85	30	-30	900
Classroom 151 V	Ninter :	2023	Kindergarten	Sciences	94	18	100	6	-6	36
	Ninter :	2023	4th Grade	Sciences	21	21	78	57	-57	3249
Classroom 157 V	Ninter :	2023	3rd Grade	Sciences	71	18	89	18	-18	324
Classroom 169 V	Ninter :	2023	3rd Grade	Sciences	27	18	94	67	-67	4489
	Ninter :	2023	4th Grade	Sciences	58	20	93	35	-35	1225
Classroom 176 V	Ninter :	2023	4th Grade	Sciences	59	20	82	23	-23	529
Classroom 177 V	Ninter :	2023	4th Grade	Sciences	17.73	16	61.65	43.92	-43.92	1928.9664
Classroom 182 V	Ninter :	2023	3rd Grade	Sciences	32	21	62	30	-30	900
Classroom 186 V	Ninter :	2023	9th Grade	Sciences	43	18	77.06	34.06	-34.06	1160.0836
Classroom 188 V		2023	10th Grade	Sciences	20	110	96	76	-76	5776
Classroom 190 V	Ninter :	2023	5th Grade	Sciences	31	23	78	47	-47	2209
		2023	5th Grade	Sciences	82.3	24	93.3	11	-11	121
Classroom 202 V	Ninter :	2023	10th Grade	Sciences	10	66	88.86	78.86	-78.86	6218.8996
Classroom 204 V	Ninter :	2023	Kindergarten	Sciences	48	15	87.5	39.5	-39.5	1560.25
Classroom 205 V	Ninter :	2023	2nd Grade	Sciences	30	19	73	43	-43	1849
Classroom 208 V	Ninter :	2023	5th Grade	Sciences	36.9	22	85.7	48.8	-48.8	2381.44
Classroom 209 V	Ninter :	2023	Kindergarten	Sciences	74	16	90	16	-16	256
Classroom 211 V	Ninter :	2023	5th Grade	Sciences	36.3	16	90	53.7	-53.7	2883.69
Classroom 213 V	Ninter :	2023	5th Grade	Sciences	23.3	20	73.25	49.95	-49.95	2495.0025
Classroom 214 V	Ninter :	2023	3rd Grade	Sciences	60	22	60	0	0	0
Classroom 217 V	Ninter :	2023	1st Grade	Sciences	69	17	78	9	-9	81
Classroom 218 V	Ninter :	2023	5th Grade	Sciences	67.15	21	84.66	17.51	-17.51	306.6001
Classroom 220 V	Ninter :	2023	3rd Grade	Sciences	31	26	60	29	-29	841
Classroom 222 V	Vinter :	2023	4th Grade	Sciences	52	23	62	10	-10	100
			3rd Grade	Sciences	85	21	98.5	13.5	-13.5	182.25
		2023	3rd Grade	Sciences	53	15	86	33	-33	1089
Classroom 226 V	Ninter :	2023	1st Grade	Sciences	40.8	23	97.4	56.6	-56.6	3203.56
				Sciences	62.8	14	90	27.2	-27.2	739.84
	Vinter	2023	J	Sciences	72	22	93.5	21.5	-21.5	462.25
		2023	2nd Grade	Sciences	69.94	17	97.2	27.26	-27.26	743.1076
Classroom 236 V										

Classroom 238	Winter	2023	1st Grade	Sciences	45	22	95	50	-50	2500
Classroom 241	Winter	2023	3rd Grade	Sciences	48	19	76	28	-28	784
Classroom 242	Winter	2023	2nd Grade	Sciences	72	20	90.5	18.5	-18.5	342.25
Classroom 244	Winter	2023	5th Grade	Sciences	42	23	95	53	-53	2809

Number of Tests - M	Number of K-12 Students:	Average % Im	provement:
94	2255		32.53
	~ ~ ~		

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}}$$

-3058.12	134203.46
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-32.53
M =Middle value	34713.06
O =Bottom Value	8742.00
P =Square root of M/O	1.99
T = (L/P)	-16.33
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.684

					Pre-	Number of				
Classroom			Grade Level	Content Area	_	P-12	Post-SCORE	"Y-X"		
Sample	Semester	Year	Assessed	Assessed	(X)	Students	(Y)	Change	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
Classroom 2	Fall	2023	4th Grade	Social Studies	30	22	71	41	-41	1681
Classroom 11	Fall	2023	1st Grade	Social Studies	85	20		9	-41	81
Classroom 12	Fall	2023	3rd Grade	Social Studies	16.6	23		79.6	- 9 -79.6	6336.16
Classroom 14	Fall	2023	1st Grade	Social Studies	67	20		31	-79.0	961
Classroom 17	Fall	2023	5th Grade	Social Studies	20	16		47	-47	2209
Classroom 22	Fall	2023	8th Grade	Social Studies	53	39		32	-32	1024
Classroom 25	Fall	2023	3rd Grade	Social Studies	56	27	83	27	-27	729
Classroom 27	Fall	2023	9th Grade	Social Studies	18	36		69	-69	4761
Classroom 28	Fall	2023		Social Studies	26	19		27	-09	729
Classroom 31	Fall	2023	3rd Grade	Social Studies	46.667	26		50	-50	2500
Classroom 32	Fall	2023	Kindergarten	Social Studies	23.6	17		23.6	-23.6	556.96
Classroom 33	Fall	2023	4th Grade	Social Studies	20.0	18		47	-23.0 -47	2209
Classroom 34	Fall	2023	1st Grade	Social Studies	68.75	21	70.625	1.875	-1.875	3.515625
Classroom 36	Fall	2023	10th Grade	Social Studies	34.1	126		46.84	-46.84	2193.9856
Classroom 38	Fall	2023	12th Grade	Social Studies	19.7	57	62.7	40.04	-43	1849
Classroom 41	Fall	2023	5th Grade	Social Studies	40	26		39	-43	1521
Classroom 42	Fall	2023	9th Grade	Social Studies	12	81	60	48	-39	2304
Classroom 43	Fall	2023	5th Grade	Social Studies	37.88	22	70.33	32.45	-32.45	1053.0025
Classroom 44	Fall	2023	2nd Grade	Social Studies	55	17		32.43	-32.43	961
Classroom 49	Fall	2023	2nd Grade	Social Studies	20	17		55	-51	3025
Classroom 50	Fall	2023	2nd Grade 2nd Grade	Social Studies	47	17		8	-55	64
Classroom 56	Fall	2023	4th Grade	Social Studies	39	9		47	-o -47	2209
Classroom 57		2023	2nd Grade	Social Studies	26	17		40	-47	1600
Classroom 58	Fall Fall	2023	2nd Grade 2nd Grade	Social Studies	42.85	24		48.75	-40 -48.75	2376.5625
	Fall	2023	3rd Grade	Social Studies	42.03	23		61.2	-46.75 -61.2	3745.44
Classroom 61 Classroom 64	Fall	2023		Social Studies	58	15		15	-01.2 -15	225
Classroom 65	Fall	2023	Kindergarten	Social Studies	55	20		27.5	-15 -27.5	756.25
Classroom 66	Fall	2023	Kindergarten 5th Grade	Social Studies	10	20	62.5	35	-27.5	1225
		2023	2nd Grade	Social Studies	75	20		23	-23	529
Classroom 69 Classroom 71	Fall Fall	2023	3rd Grade	Social Studies	38	20	90	54	-23 -54	2916
Classroom 72	Fall	2023	1st Grade	Social Studies	63.33	27	92	30.67	-30.67	940.6489
Classroom 73	Fall	2023	2nd Grade	Social Studies	03.33	15		50.07	-50.67 -50.25	2525.0625
		2023	2nd Grade 2nd Grade	Social Studies	53.8	16		17.7	-50.25 -17.7	313.29
Classroom 74	Fall Fall	2023	5th Grade	Social Studies	36	24		45	-17.7 -45	2025
Classroom 81 Classroom 84	Fall	2023	1st Grade	Social Studies	40	25		39	-45	1521
Classroom 87	Fall	2023	3rd Grade	Social Studies	5	23		27	-39	729
Classroom 88	Fall	2023	2nd Grade	Social Studies	8.5	16		50.5	-50.5	2550.25
Classroom 91	Fall	2023	3rd Grade	Social Studies	5.78	17		53.22	-53.22	2832.3684
Classroom 92	Fall	2023	5th Grade	Social Studies	28	18		25.7	-33.22 -25.7	660.49
		2023			32	19		30		
Classroom 94 Classroom 95	Fall Fall	2023	5th Grade 5th Grade	Social Studies Social Studies	19.7	37	41.35	21.65	-30 -21.65	900 468.7225
		2023						21.05		
Classroom 100	Fall		2nd Grade	Social Studies	12 60	18 17		_	-9 -30	81 900
Classroom 101	Fall	2023		Social Studies				30		
Classroom 102	Fall	2023	5th Grade	Social Studies	30	27	96.6	66.6	-66.6	4435.56

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Classroom 103		2023	5th Grade	Social Studies	9.56	23	70.4	60.84	-60.84	3701.5056
	Winter	2023	9th Grade	Social Studies	11	67	30	19	-19	361
	Winter	2023	10th Grade	Social Studies	56.25	30	87.5	31.25	-31.25	976.5625
	Winter	2023	5th Grade	Social Studies	48.4	20	83	34.6	-34.6	1197.16
Classroom 129	Winter	2023	9th Grade	Social Studies	65	79	87	22	-22	484
Classroom 153	Winter	2023	8th Grade	Social Studies	48	55	98.2	50.2	-50.2	2520.04
Classroom 155	Winter	2023	3rd Grade	Social Studies	44.2	23	95.3	51.1	-51.1	2611.21
Classroom 159	Winter	2023	11th Grade	Social Studies	49	68	74	25	-25	625
Classroom 162	Winter	2023	9th Grade	Social Studies	13.8	19	84.7	70.9	- 70.9	5026.81
Classroom 166	Winter	2023	7th Grade	Social Studies	11	113	72	61	-61	3721
Classroom 167	Winter	2023	Kindergarten	Social Studies	74	20	64	-10	10	100
Classroom 168	Winter	2023	5th Grade	Social Studies	40	18	70	30	-30	900
Classroom 170	Winter	2023	3rd Grade	Social Studies	36	15	63	27	-27	729
Classroom 173	Winter	2023	5th Grade	Social Studies	19	24	81	62	-62	3844
Classroom 174	Winter	2023	5th Grade	Social Studies	1.5	21	62.5	61	-61	3721
Classroom 180	Winter	2023	3rd Grade	Social Studies	50	12	100	50	-50	2500
Classroom 183	Winter	2023	5th Grade	Social Studies	35	19	81.75	46.75	-46.75	2185.5625
Classroom 185	Winter	2023	3rd Grade	Social Studies	16.25	17	75	58.75	-58.75	3451.5625
Classroom 189	Winter	2023	11th Grade	Social Studies	72.3	49	87.5	15.2	-15.2	231.04
Classroom 192	Winter	2023	10th Grade	Social Studies	30	89	80	50	-50	2500
	Winter	2023	10th Grade	Social Studies	58	25	79	21	-21	441
Classroom 197	Winter	2023	8th Grade	Social Studies	30	90	90	60	-60	3600
Classroom 200	Winter	2023	7th Grade	Social Studies	48	70	80	32	-32	1024
Classroom 201	Winter	2023	11th Grade	Social Studies	65.71	21	95.8	30.09	-30.09	905.4081
Classroom 203	Winter	2023	6th Grade	Social Studies	30	19	53	23	-23	529
Classroom 206	Winter	2023	1st Grade	Social Studies	90	17	93	3	-3	9
Classroom 207	Winter	2023	1st Grade	Social Studies	50	18	93	43	-43	1849
Classroom 210	Winter	2023	5th Grade	Social Studies	26	17	62	36	-36	1296
Classroom 212	Winter	2023	2nd Grade	Social Studies	40	16	83	43	-43	1849
Classroom 215	Winter	2023	4th Grade	Social Studies	0	17	84	84	-84	7056
Classroom 216	Winter	2023	5th Grade	Social Studies	15.82	18	37.96	22.14	-22.14	490.1796
Classroom 219	Winter	2023	4th Grade	Social Studies	46	22	83	37	-37	1369
Classroom 221	Winter	2023	5th Grade	Social Studies	44.4	32	92.7	48.3	-48.3	2332.89
Classroom 224	Winter	2023	3rd Grade	Social Studies	0	21	36	36	-36	1296
	Winter	2023	3rd Grade	Social Studies	28	23	74	46	-46	2116
	Winter	2023	8th Grade	Social Studies	28	57	89	61	-61	3721
Classroom 234	Winter	2023	2nd Grade	Social Studies	54	20	80.6	26.6	-26.6	707.56
Classroom 239	Winter	2023	1st Grade	Social Studies	48.98	22	78.88	29.9	-29.9	894.01
Classroom 240	Winter	2023	3rd Grade	Social Studies	43	20	75	32	-32	1024
Classroom 243	Winter	2023	5th Grade	Social Studies	0.05	5		81.2	-81.2	6593.44

N	uml	ber	of	Te	sts	=	N
						8	34

Number of K-12 Students: Average % Improvement: 2456 38.67

$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}}$$

-3247.93	153705.21
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value (∑d/N)	-38.67
M =Middle value	28121.68
O =Bottom Value	6972.00
P =Square root of M/O	2.01
T = (L/P)	-19.25
∞ = 0.05	Critical T = 1.645
	Significant
T/Square Root of N =	
Effect	-2.101