

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 1	Fall	2022	9th Grade	English	36.33	52	72	35.67	-35.67	1272.3489
Classroom 2	Fall	2022	4th Grade	Integrated Science	54	20	76	22.00	-22.00	484
Classroom 3	Fall	2022	4th Grade	Integrated Science	7.3	20	58.3	51.00	-51.00	2601
Classroom 4	Fall	2022	3rd Grade	Social Studies	15.9	22	79	63.10	-63.10	3981.61
Classroom 5	Fall	2022	7th Grade	French	74	28	78	4.00	-4.00	16
Classroom 6	Fall	2022	7th Grade	English	21	107	58.88	37.88	-37.88	1434.8944
Classroom 7	Fall	2022	8th Grade	Spanish	2	38	73	71.00	-71.00	5041
Classroom 8	Fall	2022	2nd Grade	Integrated Science	33	20	66	33.00	-33.00	1089
Classroom 9	Fall	2022	5th Grade	Social Studies	56	16	74	18.00	-18.00	324
Classroom 10	Fall	2022	10th Grade	Social Studies	53	60	83	30.00	-30.00	900
Classroom 11	Fall	2022	8th Grade	Social Studies	45	111	79	34.00	-34.00	1156
Classroom 12	Fall	2022	4th Grade	Social Studies	48	21	88	40.00	-40.00	1600
Classroom 13	Fall	2022	Kindergarten	Social Studies	82.1	21	92	9.90	-9.90	98.01
Classroom 14	Fall	2022	12th Grade	Social Studies	57.52	70	82.51	24.99	-24.99	624.5001
Classroom 15	Fall	2022	6th Grade	Social Studies	43	31	80	37.00	-37.00	1369
Classroom 16	Fall	2022	2nd Grade	Integrated Science	69	21	81	12.00	-12.00	144
Classroom 17	Fall	2022	2nd Grade	Integrated Science	44	20	69	25.00	-25.00	625
Classroom 18	Fall	2022	8th Grade	Social Studies	53.4	56	86.5	33.10	-33.10	1095.61
Classroom 19	Fall	2022	4th Grade	Integrated Science	40	14	85	45.00	-45.00	2025
Classroom 20	Fall	2022	4th Grade	Integrated Science	25	18	50	25.00	-25.00	625
Classroom 21	Fall	2022	1st Grade	Social Studies	44.6	15	85.7	41.10	-41.10	1689.21
Classroom 22	Fall	2022	4th Grade	Integrated Science	72	20	90	18.00	-18.00	324
Classroom 23	Fall	2022	3rd Grade	Integrated Science	28	16	75	47.00	-47.00	2209
Classroom 24	Fall	2022	10th Grade	Mathematics	37.06	72	58.94	21.88	-21.88	478.7344
Classroom 25	Fall	2022	1st Grade	Social Studies	40	20	79	39.00	-39.00	1521
Classroom 26	Fall	2022	1st Grade	Social Studies	44	22	65	21.00	-21.00	441
Classroom 27	Fall	2022	4th Grade	Integrated Science	38	19	40	2.00	-2.00	4
Classroom 28	Fall	2022	3rd Grade	Music	57	74	70.27	13.27	-13.27	176.0929
Classroom 29	Fall	2022	10th Grade	Music	31.95	28	77.5	45.55	-45.55	2074.8025
Classroom 30	Fall	2022	2nd Grade	Social Studies	42	20	76	34.00	-34.00	1156
Classroom 31	Fall	2022	11th Grade	Mathematics	10.8	69	53.6	42.80	-42.80	1831.84
Classroom 32	Fall	2022	1st Grade	Integrated Science	60	20	78	18.00	-18.00	324
Classroom 33	Fall	2022	5th Grade	Social Studies	17	19	62	45.00	-45.00	2025
Classroom 34	Fall	2022	Kindergarten	Integrated Science	92	21	96	4.00	-4.00	16
Classroom 35	Fall	2022	5th Grade	Integrated Science	41.5	21	47.9	6.40	-6.40	40.96
Classroom 36	Fall	2022	2nd Grade	Integrated Science	48	17	73	25.00	-25.00	625
Classroom 37	Fall	2022	4th Grade	Integrated Science	84	19	80	-4.00	4.00	16

Classroom 38	Fall	2022	3rd Grade	Social Studies	71.3	20	90	18.70	-18.70	349.69
Classroom 39	Fall	2022	4th Grade	Social Studies	48.6	22	85.5	36.90	-36.90	1361.61
Classroom 40	Fall	2022	11th Grade	Biology	37	26	55	18.00	-18.00	324
Classroom 41	Fall	2022	8th Grade	Mathematics	48.3	116	81.1	32.80	-32.80	1075.84
Classroom 42	Fall	2022	9th Grade	Physical Education	40	26	83	43.00	-43.00	1849
Classroom 43	Fall	2022	2nd Grade	Social Studies	57	21	83	26.00	-26.00	676
Classroom 44	Fall	2022	Kindergarten	Integrated Science	54.16	24	89.91	35.75	-35.75	1278.0625
Classroom 45	Fall	2022	7th Grade	Mathematics	20.33	25	74.25	53.92	-53.92	2907.3664
Classroom 46	Fall	2022	2nd Grade	Social Studies	63	17	86	23.00	-23.00	529
Classroom 47	Fall	2022	5th Grade	Social Studies	31	26	63	32.00	-32.00	1024
Classroom 48	Fall	2022	2nd Grade	Social Studies	19	12	95.8	76.80	-76.80	5898.24
Classroom 49	Fall	2022	Kindergarten	Social Studies	59	15	91	32.00	-32.00	1024
Classroom 50	Fall	2022	5th Grade	Integrated Science	53	21	73	20.00	-20.00	400
Classroom 51	Fall	2022	2nd Grade	Social Studies	68	22	61	-7.00	7.00	49
Classroom 52	Fall	2022	5th Grade	Integrated Science	43	21	87	44.00	-44.00	1936
Classroom 53	Fall	2022	9th Grade	Art Education	39	70	81	42.00	-42.00	1764
Classroom 54	Fall	2022	1st Grade	Integrated Science	51.2	25	92.4	41.20	-41.20	1697.44
Classroom 55	Fall	2022	11th Grade	English	52.6	49	65.2	12.60	-12.60	158.76
Classroom 56	Fall	2022	5th Grade	Integrated Science	51	22	69	18.00	-18.00	324
Classroom 57	Fall	2022	3rd Grade	Social Studies	39.83	21	67.58	27.75	-27.75	770.0625
Classroom 58	Fall	2022	11th Grade	English	87.88	79	82.34	-5.54	5.54	30.6916
Classroom 59	Fall	2022	9th Grade	Physical Education	62	65	96	34.00	-34.00	1156
Classroom 60	Fall	2022	10th Grade	Social Studies	40	64	73	33.00	-33.00	1089
Classroom 61	Fall	2022	10th Grade	English	37	47	87.5	50.50	-50.50	2550.25
Classroom 62	Fall	2022	10th Grade	Social Studies	26	52	91	65.00	-65.00	4225
Classroom 63	Fall	2022	5th Grade	Integrated Science	34.7	22	68	33.30	-33.30	1108.89
Classroom 64	Fall	2022	1st Grade	Social Studies	70	24	90	20.00	-20.00	400
Classroom 65	Fall	2022	4th Grade	Social Studies	48	24	70	22.00	-22.00	484
Classroom 66	Fall	2022	2nd Grade	Integrated Science	57	14	79	22.00	-22.00	484
Classroom 67	Fall	2022	4th Grade	Integrated Science	20	24	63	43.00	-43.00	1849
Classroom 68	Fall	2022	3rd Grade	Integrated Science	57	21	94	37.00	-37.00	1369
Classroom 69	Fall	2022	4th Grade	Integrated Science	65	21	100	35.00	-35.00	1225
Classroom 70	Fall	2022	2nd Grade	Social Studies	53	21	82	29.00	-29.00	841
Classroom 71	Fall	2022	2nd Grade	Social Studies	49.7	22	66	16.30	-16.30	265.69
Classroom 72	Fall	2022	1st Grade	Integrated Science	66.3	26	91.3	25.00	-25.00	625
Classroom 73	Fall	2022	3rd Grade	Social Studies	30	22	85	55.00	-55.00	3025
Classroom 74	Fall	2022	2nd Grade	Integrated Science	57.78	14	68.89	11.11	-11.11	123.4321
Classroom 75	Fall	2022	5th Grade	Social Studies	50	13	79	29.00	-29.00	841
Classroom 76	Fall	2022	1st Grade	Integrated Science	38.04	23	87.01	48.97	-48.97	2398.0609
Classroom 77	Fall	2022	Kindergarten	Social Studies	36	15	83.75	47.75	-47.75	2280.0625

Classroom 78	Fall	2022	1st Grade	Integrated Science	71	19	91	20.00	-20.00	400
Classroom 79	Fall	2022	5th Grade	Social Studies	31	19	69	38.00	-38.00	1444
Classroom 80	Fall	2022	3rd Grade	Integrated Science	36	19	92	56.00	-56.00	3136
Classroom 81	Fall	2022	2nd Grade	Integrated Science	35.6	18	75.9	40.30	-40.30	1624.09
Classroom 82	Fall	2022	4th Grade	Integrated Science	51	25	64	13.00	-13.00	169
Classroom 83	Fall	2022	4th Grade	Social Studies	36	21	62	26.00	-26.00	676
Classroom 84	Fall	2022	Kindergarten	Integrated Science	76	17	99	23.00	-23.00	529
Classroom 85	Fall	2022	3rd Grade	Integrated Science	65	18	80	15.00	-15.00	225
Classroom 86	Fall	2022	4th Grade	Social Studies	34	24	56	22.00	-22.00	484
Classroom 87	Fall	2022	2nd Grade	Social Studies	47.8	24	92.7	44.90	-44.90	2016.01
Classroom 88	Fall	2022	2nd Grade	Integrated Science	50	21	81	31.00	-31.00	961
Classroom 89	Fall	2022	1st Grade	Social Studies	20	43	71	51.00	-51.00	2601
Classroom 90	Fall	2022	2nd Grade	Social Studies	76	22	100	24.00	-24.00	576
Classroom 91	Fall	2022	4th Grade	Integrated Science	56.4	21	72.5	16.10	-16.10	259.21
Classroom 92	Fall	2022	4th Grade	Social Studies	50.43	24	84	33.57	-33.57	1126.9449
Classroom 93	Fall	2022	4th Grade	Social Studies	36	16	98	62.00	-62.00	3844
Classroom 94	Fall	2022	2nd Grade	Integrated Science	75	16	81	6.00	-6.00	36
Classroom 95	Fall	2022	3rd Grade	Integrated Science	53	22	86	33.00	-33.00	1089
Classroom 96	Fall	2022	5th Grade	Integrated Science	33	16	77	44.00	-44.00	1936
Classroom 97	Fall	2022	2nd Grade	Integrated Science	57	24	67	10.00	-10.00	100
Classroom 98	Fall	2022	Kindergarten	Integrated Science	47.22	20	85	37.78	-37.78	1427.3284
Classroom 99	Fall	2022	2nd Grade	Social Studies	49.62	19	74.43	24.81	-24.81	615.5361
Classroom 100	Fall	2022	Kindergarten	Integrated Science	64	24	83	19.00	-19.00	361
Classroom 101	Fall	2022	5th Grade	Integrated Science	72	25	84	12.00	-12.00	144
Classroom 102	Fall	2022	3rd Grade	Integrated Science	59	25	87	28.00	-28.00	784
Classroom 103	Fall	2022	2nd Grade	Integrated Science	60	19	76	16.00	-16.00	256
Classroom 104	Fall	2022	Kindergarten	Integrated Science	67	24	95	28.00	-28.00	784
Classroom 105	Fall	2022	3rd Grade	Social Studies	14.3	13	75.9	61.60	-61.60	3794.56
Classroom 106	Fall	2022	5th Grade	Integrated Science	56.8	26	83	26.20	-26.20	686.44
Classroom 107	Fall	2022	4th Grade	Integrated Science	56	24	90	34.00	-34.00	1156
Classroom 108	Fall	2022	Kindergarten	Social Studies	72	20	88	16.00	-16.00	256
Classroom 109	Fall	2022	3rd Grade	Integrated Science	74	24	85	11.00	-11.00	121
Classroom 110	Fall	2022	5th Grade	Social Studies	30	18	75	45.00	-45.00	2025
Classroom 111	Fall	2022	3rd Grade	Integrated Science	37	21	89	52.00	-52.00	2704
Classroom 112	Fall	2022	4th Grade	Social Studies	6.7	23	75	68.30	-68.30	4664.89
Classroom 113	Fall	2022	1st Grade	Integrated Science	66	21	82.5	16.50	-16.50	272.25
Classroom 114	Fall	2022	1st Grade	Integrated Science	34.21	19	75.66	41.45	-41.45	1718.1025
Classroom 115	Fall	2022	3rd Grade	Integrated Science	40.4	19	74	33.60	-33.60	1128.96
Classroom 116	Fall	2022	3rd Grade	Social Studies	68	23	78	10.00	-10.00	100
Classroom 117	Fall	2022	Kindergarten	Integrated Science	68	19	92.5	24.50	-24.50	600.25

Classroom 118	Fall	2022	4th Grade	Social Studies	5.2	17	80.7	75.50	-75.50	5700.25
Classroom 119	Fall	2022	4th Grade	Integrated Science	50	20	83	33.00	-33.00	1089
Classroom 120	Fall	2022	2nd Grade	Integrated Science	33	19	73	40.00	-40.00	1600
Classroom 121	Fall	2022	4th Grade	Social Studies	71	30	90	19.00	-19.00	361
Classroom 122	Fall	2022	4th Grade	Integrated Science	28	27	61	33.00	-33.00	1089
Classroom 123	Fall	2022	2nd Grade	Social Studies	55	17	93	38.00	-38.00	1444
Classroom 124	Fall	2022	Kindergarten	Integrated Science	98	16	93	-5.00	5.00	25
Classroom 125	Fall	2022	5th Grade	Integrated Science	54.55	23	87.3	32.75	-32.75	1072.5625
Classroom 126	Fall	2022	3rd Grade	Social Studies	30	19	92	62.00	-62.00	3844
Classroom 127	Fall	2022	1st Grade	Integrated Science	63	21	78.75	15.75	-15.75	248.0625
Classroom 128	Winter	2022	5th Grade	Integrated Science	65	24	80	15.00	-15.00	225
Classroom 129	Winter	2022	6th Grade	Art Education	9.48	21	65.33	55.85	-55.85	3119.2225
Classroom 130	Winter	2022	7th Grade	Mathematics	51.3636	43	70.56	19.20	-19.20	368.501773
Classroom 131	Winter	2022	6th Grade	Social Studies	67.6	51	78.4	10.80	-10.80	116.64
Classroom 132	Winter	2022	Kindergarten	Integrated Science	47.59	26	62.91	15.32	-15.32	234.7024
Classroom 133	Winter	2022	1st Grade	Integrated Science	92	14	63	-29.00	29.00	841
Classroom 134	Winter	2022	4th Grade	Integrated Science	36	24	70	34.00	-34.00	1156
Classroom 135	Winter	2022	Kindergarten	Integrated Science	65	13	93	28.00	-28.00	784
Classroom 136	Winter	2022	5th Grade	Social Studies	48	20	68	20.00	-20.00	400
Classroom 137	Winter	2022	Kindergarten	Integrated Science	67	24	96	29.00	-29.00	841
Classroom 138	Winter	2022	8th Grade	English	49	29	95.09	46.09	-46.09	2124.2881
Classroom 139	Winter	2022	1st Grade	Social Studies	73	16	88	15.00	-15.00	225
Classroom 140	Winter	2022	5th Grade	Integrated Science	30.95	21	80	49.05	-49.05	2405.9025
Classroom 141	Winter	2022	10th Grade	Mathematics	4.4	18	81.3	76.90	-76.90	5913.61
Classroom 142	Winter	2022	4th Grade	Integrated Science	73	22	72.7	-0.30	0.30	0.09
Classroom 143	Winter	2022	8th Grade	Social Studies	36.4	34	72.9	36.50	-36.50	1332.25
Classroom 144	Winter	2022	12th Grade	Geology	52	80	84	32.00	-32.00	1024
Classroom 145	Winter	2022	4th Grade	Social Studies	17	24	32.56	15.56	-15.56	242.1136
Classroom 146	Winter	2022	4th Grade	Integrated Science	52	16	92	40.00	-40.00	1600
Classroom 147	Winter	2022	1st Grade	Integrated Science	67	17	70	3.00	-3.00	9
Classroom 148	Winter	2022	8th Grade	Mathematics	13	11	67	54.00	-54.00	2916
Classroom 149	Winter	2022	Kindergarten	Integrated Science	79.5	15	93.8	14.30	-14.30	204.49
Classroom 150	Winter	2022	1st Grade	Integrated Science	49.8	17	66	16.20	-16.20	262.44
Classroom 151	Winter	2022	2nd Grade	Integrated Science	50	16	87	37.00	-37.00	1369
Classroom 152	Winter	2022	1st Grade	Integrated Science	89	23	96	7.00	-7.00	49
Classroom 153	Winter	2022	5th Grade	Social Studies	23.21	15	85	61.79	-61.79	3818.0041
Classroom 154	Winter	2022	11th Grade	Mathematics	30	44	80.39	50.39	-50.39	2539.1521
Classroom 155	Winter	2022	10th Grade	Mathematics	5	25	84	79.00	-79.00	6241
Classroom 156	Winter	2022	Kindergarten	Social Studies	66	19	93	27.00	-27.00	729
Classroom 157	Winter	2022	4th Grade	Social Studies	68	22	87	19.00	-19.00	361

Classroom 158	Winter	2022	2nd Grade	Integrated Science	52	20	87	35.00	-35.00	1225
Classroom 159	Winter	2022	3rd Grade	Integrated Science	30	22	80	50.00	-50.00	2500
Classroom 160	Winter	2022	10th Grade	Social Studies	33	25	70	37.00	-37.00	1369
Classroom 161	Winter	2022	4th Grade	Integrated Science	76	18	83	7.00	-7.00	49
Classroom 162	Winter	2022	4th Grade	Social Studies	56	20	62	6.00	-6.00	36
Classroom 163	Winter	2022	Kindergarten	Integrated Science	88	25	98	10.00	-10.00	100
Classroom 164	Winter	2022	6th Grade	Earth Science	36	31	79	43.00	-43.00	1849
Classroom 165	Winter	2022	5th Grade	Social Studies	54.1	24	52.5	-1.60	1.60	2.56
Classroom 166	Winter	2022	2nd Grade	Integrated Science	67	20	77	10.00	-10.00	100
Classroom 167	Winter	2022	9th Grade	Social Studies	60	49	80	20.00	-20.00	400
Classroom 168	Winter	2022	2nd Grade	Social Studies	40	16	60	20.00	-20.00	400
Classroom 169	Winter	2022	2nd Grade	Integrated Science	46	18	46	0.00	0.00	0
Classroom 170	Winter	2022	5th Grade	Music	86	24	95	9.00	-9.00	81
Classroom 171	Winter	2022	11th Grade	Mathematics	30.7	32	74	43.30	-43.30	1874.89
Classroom 172	Winter	2022	5th Grade	Art Education	55	20	90	35.00	-35.00	1225
Classroom 173	Winter	2022	8th Grade	Music	50.1	9	88	37.90	-37.90	1436.41
Classroom 174	Winter	2022	9th Grade	English	38	25	77	39.00	-39.00	1521
Classroom 175	Winter	2022	3rd Grade	Integrated Science	45.1	26	53.24	8.14	-8.14	66.2596
Classroom 176	Winter	2022	12th Grade	Music	56	17	91	35.00	-35.00	1225
Classroom 177	Winter	2022	11th Grade	Mathematics	3.75	30	88.75	85.00	-85.00	7225
Classroom 178	Winter	2022	8th Grade	Social Studies	60	164	70.2	10.20	-10.20	104.04
Classroom 179	Winter	2022	8th Grade	English Language Arts	51	31	82	31.00	-31.00	961
Classroom 180	Winter	2022	7th Grade	Mathematics	14.4	128	83.6	69.20	-69.20	4788.64
Classroom 181	Winter	2022	4th Grade	Social Studies	50	20	83	33.00	-33.00	1089
Classroom 182	Winter	2022	2nd Grade	Integrated Science	43	16	81	38.00	-38.00	1444
Classroom 183	Winter	2022	10th Grade	Mathematics	5	22	76	71.00	-71.00	5041
Classroom 184	Winter	2022	7th Grade	English Language Arts	83.278	71	93.4	10.12	-10.12	102.454884
Classroom 185	Winter	2022	1st Grade	Social Studies	16.2	19	83	66.80	-66.80	4462.24
Classroom 186	Winter	2022	7th Grade	Social Studies	47	121	73	26.00	-26.00	676
Classroom 187	Winter	2022	1st Grade	Social Studies	45	14	78	33.00	-33.00	1089
Classroom 188	Winter	2022	5th Grade	Social Studies	42.5	20	62.5	20.00	-20.00	400
Classroom 189	Winter	2022	5th Grade	Social Studies	51	14	72	21.00	-21.00	441
Classroom 190	Winter	2022	10th Grade	Mathematics	35	72	85	50.00	-50.00	2500
Classroom 191	Winter	2022	4th Grade	Social Studies	28	23	63	35.00	-35.00	1225
Classroom 192	Winter	2022	6th Grade	Social Studies	81	120	88	7.00	-7.00	49
Classroom 193	Winter	2022	10th Grade	Social Studies	37	105	59	22.00	-22.00	484
Classroom 194	Winter	2022	11th Grade	Social Studies	72	32	88	16.00	-16.00	256
Classroom 195	Winter	2022	8th Grade	Mathematics	21.3	9	53.7	32.40	-32.40	1049.76
Classroom 196	Winter	2022	2nd Grade	Social Studies	54	17	79	25.00	-25.00	625
Classroom 197	Winter	2022	5th Grade	Social Studies	67	18	100	33.00	-33.00	1089

Classroom 198	Winter	2022	7th Grade	English Language Arts	59	116	62	3.00	-3.00	9
Classroom 199	Winter	2022	1st Grade	Integrated Science	50	16	80	30.00	-30.00	900
Classroom 200	Winter	2022	Kindergarten	Integrated Science	73	18	83	10.00	-10.00	100
Classroom 201	Winter	2022	11th Grade	Music	31	52	46	15.00	-15.00	225
Classroom 202	Winter	2022	Kindergarten	Integrated Science	43	15	78	35.00	-35.00	1225
Classroom 203	Winter	2022	3rd Grade	Integrated Science	85	24	82	-3.00	3.00	9
Classroom 204	Winter	2022	2nd Grade	Integrated Science	91	22	96	5.00	-5.00	25
Classroom 205	Winter	2022	7th Grade	Social Studies	70.14	117	94.14	24.00	-24.00	576
Classroom 206	Winter	2022	10th Grade	English	22.7	18	50.7	28.00	-28.00	784
Classroom 207	Winter	2022	9th Grade	Physical Education	67.8	28	87.5	19.70	-19.70	388.09
Classroom 208	Winter	2022	3rd Grade	Physical Education	74	20	93.5	19.50	-19.50	380.25
Classroom 209	Winter	2022	5th Grade	Integrated Science	44	21	79	35.00	-35.00	1225
Classroom 210	Winter	2022	9th Grade	Earth Science	51.3	106	79.8	28.50	-28.50	812.25
Classroom 211	Winter	2022	7th Grade	Social Studies	40.6	26	77.1	36.50	-36.50	1332.25
Classroom 212	Winter	2022	9th Grade	Mathematics	5	15	80	75.00	-75.00	5625
Classroom 213	Winter	2022	12th Grade	English	46	10	84	38.00	-38.00	1444
Classroom 214	Winter	2022	6th Grade	English Language Arts	42.1	22	74.2	32.10	-32.10	1030.41
Classroom 215	Winter	2022	10th Grade	Social Studies	38	18	67	29.00	-29.00	841
Classroom 216	Winter	2022	11th Grade	English	56.67	15	87.33	30.66	-30.66	940.0356
Classroom 217	Winter	2022	7th Grade	English Language Arts	59	87	81	22.00	-22.00	484
Classroom 218	Winter	2022	9th Grade	Social Studies	27.8	78	76.8	49.00	-49.00	2401
Classroom 219	Winter	2022	2nd Grade	Physical Education	60	20	100	40.00	-40.00	1600
Classroom 220	Winter	2022	4th Grade	Integrated Science	42	17	81	39.00	-39.00	1521
Classroom 221	Winter	2022	6th Grade	English Language Arts	66.77	45	75.48	8.71	-8.71	75.8641
Classroom 222	Winter	2022	6th Grade	Physical Education	81.346	78	64.872	-16.47	16.47	271.392676
Classroom 223	Winter	2022	11th Grade	Mathematics	55.5	42	77.35	21.85	-21.85	477.4225
Classroom 224	Winter	2022	9th Grade	Social Studies	29	25	78	49.00	-49.00	2401
Classroom 225	Winter	2022	10th Grade	Chemistry	40.18	72	75.34	35.16	-35.16	1236.2256
Classroom 226	Winter	2022	8th Grade	Music	80.8	34	85.8	5.00	-5.00	25
Classroom 227	Winter	2022	4th Grade	Integrated Science	30.25	15	62	31.75	-31.75	1008.0625
Classroom 228	Winter	2022	9th Grade	Social Studies	31	81	84	53.00	-53.00	2809
Classroom 229	Winter	2022	2nd Grade	Physical Education	46	24	93.5	47.50	-47.50	2256.25
Classroom 230	Winter	2022	7th Grade	Social Studies	28	72	75	47.00	-47.00	2209
Classroom 231	Winter	2022	7th Grade	Music	74.5	22	77.1	2.60	-2.60	6.76
Classroom 232	Winter	2022	12th Grade	Physical Education	22	49	68	46.00	-46.00	2116
Classroom 233	Winter	2022	11th Grade	Mathematics	74	25	85	11.00	-11.00	121
Classroom 234	Winter	2022	11th Grade	Physics	40	36	89	49.00	-49.00	2401
Classroom 235	Winter	2022	10th Grade	Mathematics	19.5	40	76.7	57.20	-57.20	3271.84
Classroom 236	Winter	2022	8th Grade	English Language Arts	39	27	76	37.00	-37.00	1369
Classroom 237	Winter	2022	3rd Grade	Integrated Science	45	16	85	40.00	-40.00	1600

Classroom 238	Winter	2022	8th Grade	English Language Arts	54	75	82	28.00	-28.00	784
Classroom 239	Winter	2022	7th Grade	Physical Education	47	52	86	39.00	-39.00	1521
Classroom 240	Winter	2022	7th Grade	Music	50	13	83	33.00	-33.00	1089
Classroom 241	Winter	2022	8th Grade	Spanish	36.1	66	81	44.90	-44.90	2016.01
Classroom 242	Winter	2022	1st Grade	Integrated Science	50	21	88	38.00	-38.00	1444
Classroom 243	Winter	2022	Kindergarten	Integrated Science	42	21	77	35.00	-35.00	1225
Classroom 244	Winter	2022	5th Grade	Social Studies	56	21	75	19.00	-19.00	361
Classroom 245	Winter	2022	5th Grade	Integrated Science	32	25	100	68.00	-68.00	4624
Classroom 246	Winter	2022	3rd Grade	Social Studies	0	22	35	35.00	-35.00	1225
Classroom 247	Winter	2022	3rd Grade	Social Studies	44.5	21	73.3	28.80	-28.80	829.44
Classroom 248	Winter	2022	3rd Grade	Integrated Science	15	22	85	70.00	-70.00	4900
Classroom 249	Winter	2022	3rd Grade	Social Studies	45	18	82.8	37.80	-37.80	1428.84
Classroom 250	Winter	2022	Kindergarten	Integrated Science	75	20	97.5	22.50	-22.50	506.25
Classroom 251	Winter	2022	Kindergarten	Integrated Science	72	25	94.4	22.40	-22.40	501.76
Classroom 252	Winter	2022	5th Grade	Social Studies	74	22	84	10.00	-10.00	100
Classroom 253	Winter	2022	5th Grade	Integrated Science	33.1	21	88	54.90	-54.90	3014.01
Classroom 254	Winter	2022	5th Grade	Social Studies	38	26	64	26.00	-26.00	676
Classroom 255	Winter	2022	Kindergarten	Integrated Science	54	17	90	36.00	-36.00	1296
Classroom 256	Winter	2022	5th Grade	Social Studies	25.7	16	65.2	39.50	-39.50	1560.25
Classroom 257	Winter	2022	3rd Grade	Social Studies	46	24	85	39.00	-39.00	1521
Classroom 258	Winter	2022	5th Grade	Social Studies	20	19	47	27.00	-27.00	729
Classroom 259	Winter	2022	2nd Grade	Integrated Science	46	19	75	29.00	-29.00	841
Classroom 260	Winter	2022	5th Grade	Social Studies	45.55	22	65	19.45	-19.45	378.3025
Classroom 261	Winter	2022	3rd Grade	Integrated Science	47.3	16	78.23	30.93	-30.93	956.6649
Classroom 262	Winter	2022	1st Grade	Integrated Science	65.97	18	70.75	4.78	-4.78	22.8484
Classroom 263	Winter	2022	Kindergarten	Integrated Science	60	23	89.6	29.60	-29.60	876.16
Classroom 264	Winter	2022	1st Grade	Social Studies	75	13	100	25.00	-25.00	625
Classroom 265	Winter	2022	5th Grade	Social Studies	39	21	77	38.00	-38.00	1444
Classroom 266	Winter	2022	4th Grade	Social Studies	49.44	22	78.75	29.31	-29.31	859.0761
Classroom 267	Winter	2022	2nd Grade	Social Studies	7	41	7	0.00	0.00	0
Classroom 268	Winter	2022	4th Grade	Social Studies	28	22	67	39.00	-39.00	1521
Classroom 269	Winter	2022	3rd Grade	Integrated Science	60	18	83	23.00	-23.00	529
Classroom 270	Winter	2022	5th Grade	Social Studies	54	21	71	17.00	-17.00	289
Classroom 271	Winter	2022	5th Grade	Social Studies	47	23	61	14.00	-14.00	196
Classroom 272	Winter	2022	2nd Grade	Integrated Science	70	17	83	13.00	-13.00	169
Classroom 273	Winter	2022	3rd Grade	Integrated Science	34	15	85	51.00	-51.00	2601
Classroom 274	Winter	2022	4th Grade	Integrated Science	75	23	89	14.00	-14.00	196
Classroom 275	Winter	2022	3rd Grade	Social Studies	26	23	82	56.00	-56.00	3136
Classroom 276	Winter	2022	3rd Grade	Social Studies	21	38	83	62.00	-62.00	3844
Classroom 277	Winter	2022	3rd Grade	Integrated Science	43.4	23	82.4	39.00	-39.00	1521

Classroom 278	Winter	2022	1st Grade	Social Studies	54	14	86	32.00	-32.00	1024
Classroom 279	Winter	2022	Kindergarten	Integrated Science	60	18	98	38.00	-38.00	1444
Classroom 280	Winter	2022	5th Grade	Integrated Science	23	13	67	44.00	-44.00	1936

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-8533.29	351834.59
280	8350	30.48	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-30.48
M =Middle value	91773.47
O =Bottom Value	78120.00
P =Square root of M/O	1.08
T = (L/P)	-28.12
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.680

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 13	Fall	2022	Kindergarten	Social Studies	82.1	21	92	9.90	-9.90	98.01
Classroom 34	Fall	2022	Kindergarten	Integrated Science	92	21	96	4.00	-4.00	16
Classroom 44	Fall	2022	Kindergarten	Integrated Science	54.16	24	89.91	35.75	-35.75	1278.0625
Classroom 49	Fall	2022	Kindergarten	Social Studies	59	15	91	32.00	-32.00	1024
Classroom 77	Fall	2022	Kindergarten	Social Studies	36	15	83.75	47.75	-47.75	2280.0625
Classroom 84	Fall	2022	Kindergarten	Integrated Science	76	17	99	23.00	-23.00	529
Classroom 98	Fall	2022	Kindergarten	Integrated Science	47.22	20	85	37.78	-37.78	1427.3284
Classroom 100	Fall	2022	Kindergarten	Integrated Science	64	24	83	19.00	-19.00	361
Classroom 104	Fall	2022	Kindergarten	Integrated Science	67	24	95	28.00	-28.00	784
Classroom 108	Fall	2022	Kindergarten	Social Studies	72	20	88	16.00	-16.00	256
Classroom 117	Fall	2022	Kindergarten	Integrated Science	68	19	92.5	24.50	-24.50	600.25
Classroom 124	Fall	2022	Kindergarten	Integrated Science	98	16	93	-5.00	5.00	25
Classroom 132	Winter	2022	Kindergarten	Integrated Science	47.59	26	62.91	15.32	-15.32	234.7024
Classroom 135	Winter	2022	Kindergarten	Integrated Science	65	13	93	28.00	-28.00	784
Classroom 137	Winter	2022	Kindergarten	Integrated Science	67	24	96	29.00	-29.00	841
Classroom 149	Winter	2022	Kindergarten	Integrated Science	79.5	15	93.8	14.30	-14.30	204.49
Classroom 156	Winter	2022	Kindergarten	Social Studies	66	19	93	27.00	-27.00	729
Classroom 163	Winter	2022	Kindergarten	Integrated Science	88	25	98	10.00	-10.00	100
Classroom 200	Winter	2022	Kindergarten	Integrated Science	73	18	83	10.00	-10.00	100
Classroom 202	Winter	2022	Kindergarten	Integrated Science	43	15	78	35.00	-35.00	1225
Classroom 243	Winter	2022	Kindergarten	Integrated Science	42	21	77	35.00	-35.00	1225
Classroom 250	Winter	2022	Kindergarten	Integrated Science	75	20	97.5	22.50	-22.50	506.25
Classroom 251	Winter	2022	Kindergarten	Integrated Science	72	25	94.4	22.40	-22.40	501.76
Classroom 255	Winter	2022	Kindergarten	Integrated Science	54	17	90	36.00	-36.00	1296
Classroom 263	Winter	2022	Kindergarten	Integrated Science	60	23	89.6	29.60	-29.60	876.16
Classroom 279	Winter	2022	Kindergarten	Integrated Science	60	18	98	38.00	-38.00	1444

Number of Tests = N 26	Number of K-12 Students: 512	Average % Improvement: 24.03
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$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

-624.80	18746.08
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value ($\sum d/N$)	-24.03
M =Middle value	3731.65
O =Bottom Value	650.00
P =Square root of M/O	2.40
T = (L/P)	-10.03
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.967

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 21	Fall	2022	1st Grade	Social Studies	44.6	15	85.7	41.10	-41.10	1689.21
Classroom 25	Fall	2022	1st Grade	Social Studies	40	20	79	39.00	-39.00	1521
Classroom 26	Fall	2022	1st Grade	Social Studies	44	22	65	21.00	-21.00	441
Classroom 32	Fall	2022	1st Grade	Integrated Science	60	20	78	18.00	-18.00	324
Classroom 54	Fall	2022	1st Grade	Integrated Science	51.2	25	92.4	41.20	-41.20	1697.44
Classroom 64	Fall	2022	1st Grade	Social Studies	70	24	90	20.00	-20.00	400
Classroom 72	Fall	2022	1st Grade	Integrated Science	66.3	26	91.3	25.00	-25.00	625
Classroom 76	Fall	2022	1st Grade	Integrated Science	38.04	23	87.01	48.97	-48.97	2398.0609
Classroom 78	Fall	2022	1st Grade	Integrated Science	71	19	91	20.00	-20.00	400
Classroom 89	Fall	2022	1st Grade	Social Studies	20	43	71	51.00	-51.00	2601
Classroom 113	Fall	2022	1st Grade	Integrated Science	66	21	82.5	16.50	-16.50	272.25
Classroom 114	Fall	2022	1st Grade	Integrated Science	34.21	19	75.66	41.45	-41.45	1718.1025
Classroom 127	Fall	2022	1st Grade	Integrated Science	63	21	78.75	15.75	-15.75	248.0625
Classroom 133	Winter	2022	1st Grade	Integrated Science	92	14	63	-29.00	29.00	841
Classroom 139	Winter	2022	1st Grade	Social Studies	73	16	88	15.00	-15.00	225
Classroom 147	Winter	2022	1st Grade	Integrated Science	67	17	70	3.00	-3.00	9
Classroom 150	Winter	2022	1st Grade	Integrated Science	49.8	17	66	16.20	-16.20	262.44
Classroom 152	Winter	2022	1st Grade	Integrated Science	89	23	96	7.00	-7.00	49
Classroom 185	Winter	2022	1st Grade	Social Studies	16.2	19	83	66.80	-66.80	4462.24
Classroom 187	Winter	2022	1st Grade	Social Studies	45	14	78	33.00	-33.00	1089
Classroom 199	Winter	2022	1st Grade	Integrated Science	50	16	80	30.00	-30.00	900
Classroom 242	Winter	2022	1st Grade	Integrated Science	50	21	88	38.00	-38.00	1444
Classroom 262	Winter	2022	1st Grade	Integrated Science	65.97	18	70.75	4.78	-4.78	22.8484
Classroom 264	Winter	2022	1st Grade	Social Studies	75	13	100	25.00	-25.00	625
Classroom 278	Winter	2022	1st Grade	Social Studies	54	14	86	32.00	-32.00	1024

Number of Tests = N	Number of K-12 Students:	Average % Improvement:
25	495	25.63

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

-640.75	25288.65
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value ($\sum d/N$)	-25.63
M =Middle value	8866.23
O =Bottom Value	600.00
P =Square root of M/O	3.84
T = (L/P)	-6.67
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.333

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 8	Fall	2022	2nd Grade	Integrated Science	33	20	66	33.00	-33.00	1089
Classroom 16	Fall	2022	2nd Grade	Integrated Science	69	21	81	12.00	-12.00	144
Classroom 17	Fall	2022	2nd Grade	Integrated Science	44	20	69	25.00	-25.00	625
Classroom 30	Fall	2022	2nd Grade	Social Studies	42	20	76	34.00	-34.00	1156
Classroom 36	Fall	2022	2nd Grade	Integrated Science	48	17	73	25.00	-25.00	625
Classroom 43	Fall	2022	2nd Grade	Social Studies	57	21	83	26.00	-26.00	676
Classroom 46	Fall	2022	2nd Grade	Social Studies	63	17	86	23.00	-23.00	529
Classroom 48	Fall	2022	2nd Grade	Social Studies	19	12	95.8	76.80	-76.80	5898.24
Classroom 51	Fall	2022	2nd Grade	Social Studies	68	22	61	-7.00	7.00	49
Classroom 66	Fall	2022	2nd Grade	Integrated Science	57	14	79	22.00	-22.00	484
Classroom 70	Fall	2022	2nd Grade	Social Studies	53	21	82	29.00	-29.00	841
Classroom 71	Fall	2022	2nd Grade	Social Studies	49.7	22	66	16.30	-16.30	265.69
Classroom 74	Fall	2022	2nd Grade	Integrated Science	57.78	14	68.89	11.11	-11.11	123.4321
Classroom 81	Fall	2022	2nd Grade	Integrated Science	35.6	18	75.9	40.30	-40.30	1624.09
Classroom 87	Fall	2022	2nd Grade	Social Studies	47.8	24	92.7	44.90	-44.90	2016.01
Classroom 88	Fall	2022	2nd Grade	Integrated Science	50	21	81	31.00	-31.00	961
Classroom 90	Fall	2022	2nd Grade	Social Studies	76	22	100	24.00	-24.00	576
Classroom 94	Fall	2022	2nd Grade	Integrated Science	75	16	81	6.00	-6.00	36
Classroom 97	Fall	2022	2nd Grade	Integrated Science	57	24	67	10.00	-10.00	100
Classroom 99	Fall	2022	2nd Grade	Social Studies	49.62	19	74.43	24.81	-24.81	615.5361
Classroom 103	Fall	2022	2nd Grade	Integrated Science	60	19	76	16.00	-16.00	256
Classroom 120	Fall	2022	2nd Grade	Integrated Science	33	19	73	40.00	-40.00	1600
Classroom 123	Fall	2022	2nd Grade	Social Studies	55	17	93	38.00	-38.00	1444
Classroom 151	Winter	2022	2nd Grade	Integrated Science	50	16	87	37.00	-37.00	1369
Classroom 158	Winter	2022	2nd Grade	Integrated Science	52	20	87	35.00	-35.00	1225
Classroom 166	Winter	2022	2nd Grade	Integrated Science	67	20	77	10.00	-10.00	100
Classroom 168	Winter	2022	2nd Grade	Social Studies	40	16	60	20.00	-20.00	400
Classroom 169	Winter	2022	2nd Grade	Integrated Science	46	18	46	0.00	0.00	0
Classroom 182	Winter	2022	2nd Grade	Integrated Science	43	16	81	38.00	-38.00	1444
Classroom 196	Winter	2022	2nd Grade	Social Studies	54	17	79	25.00	-25.00	625
Classroom 204	Winter	2022	2nd Grade	Integrated Science	91	22	96	5.00	-5.00	25
Classroom 219	Winter	2022	2nd Grade	Physical Education	60	20	100	40.00	-40.00	1600
Classroom 229	Winter	2022	2nd Grade	Physical Education	46	24	93.5	47.50	-47.50	2256.25
Classroom 259	Winter	2022	2nd Grade	Integrated Science	46	19	75	29.00	-29.00	841
Classroom 267	Winter	2022	2nd Grade	Social Studies	7	41	7	0.00	0.00	0
Classroom 272	Winter	2022	2nd Grade	Integrated Science	70	17	83	13.00	-13.00	169

Number of Tests = N	Number of K-12 Students:	Average % Improvement:
36	700	25.02

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

-900.72	31788.25
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value ($\sum d/N$)	-25.02
M =Middle value	9252.23
O =Bottom Value	1260.00
P =Square root of M/O	2.71
T = (L/P)	-9.23
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.539

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 4	Fall	2022	3rd Grade	Social Studies	15.9	22	79	63.10	-63.10	3981.61
Classroom 23	Fall	2022	3rd Grade	Integrated Science	28	16	75	47.00	-47.00	2209
Classroom 28	Fall	2022	3rd Grade	Music	57	74	70.27	13.27	-13.27	176.0929
Classroom 38	Fall	2022	3rd Grade	Social Studies	71.3	20	90	18.70	-18.70	349.69
Classroom 57	Fall	2022	3rd Grade	Social Studies	39.83	21	67.58	27.75	-27.75	770.0625
Classroom 68	Fall	2022	3rd Grade	Integrated Science	57	21	94	37.00	-37.00	1369
Classroom 73	Fall	2022	3rd Grade	Social Studies	30	22	85	55.00	-55.00	3025
Classroom 80	Fall	2022	3rd Grade	Integrated Science	36	19	92	56.00	-56.00	3136
Classroom 85	Fall	2022	3rd Grade	Integrated Science	65	18	80	15.00	-15.00	225
Classroom 95	Fall	2022	3rd Grade	Integrated Science	53	22	86	33.00	-33.00	1089
Classroom 102	Fall	2022	3rd Grade	Integrated Science	59	25	87	28.00	-28.00	784
Classroom 105	Fall	2022	3rd Grade	Social Studies	14.3	13	75.9	61.60	-61.60	3794.56
Classroom 109	Fall	2022	3rd Grade	Integrated Science	74	24	85	11.00	-11.00	121
Classroom 111	Fall	2022	3rd Grade	Integrated Science	37	21	89	52.00	-52.00	2704
Classroom 115	Fall	2022	3rd Grade	Integrated Science	40.4	19	74	33.60	-33.60	1128.96
Classroom 116	Fall	2022	3rd Grade	Social Studies	68	23	78	10.00	-10.00	100
Classroom 126	Fall	2022	3rd Grade	Social Studies	30	19	92	62.00	-62.00	3844
Classroom 159	Winter	2022	3rd Grade	Integrated Science	30	22	80	50.00	-50.00	2500
Classroom 175	Winter	2022	3rd Grade	Integrated Science	45.1	26	53.24	8.14	-8.14	66.2596
Classroom 203	Winter	2022	3rd Grade	Integrated Science	85	24	82	-3.00	3.00	9
Classroom 208	Winter	2022	3rd Grade	Physical Education	74	20	93.5	19.50	-19.50	380.25
Classroom 237	Winter	2022	3rd Grade	Integrated Science	45	16	85	40.00	-40.00	1600
Classroom 246	Winter	2022	3rd Grade	Social Studies	0	22	35	35.00	-35.00	1225
Classroom 247	Winter	2022	3rd Grade	Social Studies	44.5	21	73.3	28.80	-28.80	829.44
Classroom 248	Winter	2022	3rd Grade	Integrated Science	15	22	85	70.00	-70.00	4900
Classroom 249	Winter	2022	3rd Grade	Social Studies	45	18	82.8	37.80	-37.80	1428.84
Classroom 257	Winter	2022	3rd Grade	Social Studies	46	24	85	39.00	-39.00	1521
Classroom 261	Winter	2022	3rd Grade	Integrated Science	47.3	16	78.23	30.93	-30.93	956.6649
Classroom 269	Winter	2022	3rd Grade	Integrated Science	60	18	83	23.00	-23.00	529
Classroom 273	Winter	2022	3rd Grade	Integrated Science	34	15	85	51.00	-51.00	2601
Classroom 275	Winter	2022	3rd Grade	Social Studies	26	23	82	56.00	-56.00	3136
Classroom 276	Winter	2022	3rd Grade	Social Studies	21	38	83	62.00	-62.00	3844
Classroom 277	Winter	2022	3rd Grade	Integrated Science	43.4	23	82.4	39.00	-39.00	1521

Number of Tests = N	Number of K-12 Students:	Average % Improvement:
33	741	36.70

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

-1211.19	55854.43
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value ($\sum d/N$)	-36.70
M =Middle value	11400.45
O =Bottom Value	1056.00
P =Square root of M/O	3.29
T = (L/P)	-11.17
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.945

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 2	Fall	2022	4th Grade	Integrated Science	54	20	76	22.00	-22.00	484
Classroom 3	Fall	2022	4th Grade	Integrated Science	7.3	20	58.3	51.00	-51.00	2601
Classroom 12	Fall	2022	4th Grade	Social Studies	48	21	88	40.00	-40.00	1600
Classroom 19	Fall	2022	4th Grade	Integrated Science	40	14	85	45.00	-45.00	2025
Classroom 20	Fall	2022	4th Grade	Integrated Science	25	18	50	25.00	-25.00	625
Classroom 22	Fall	2022	4th Grade	Integrated Science	72	20	90	18.00	-18.00	324
Classroom 27	Fall	2022	4th Grade	Integrated Science	38	19	40	2.00	-2.00	4
Classroom 37	Fall	2022	4th Grade	Integrated Science	84	19	80	-4.00	4.00	16
Classroom 39	Fall	2022	4th Grade	Social Studies	48.6	22	85.5	36.90	-36.90	1361.61
Classroom 65	Fall	2022	4th Grade	Social Studies	48	24	70	22.00	-22.00	484
Classroom 67	Fall	2022	4th Grade	Integrated Science	20	24	63	43.00	-43.00	1849
Classroom 69	Fall	2022	4th Grade	Integrated Science	65	21	100	35.00	-35.00	1225
Classroom 82	Fall	2022	4th Grade	Integrated Science	51	25	64	13.00	-13.00	169
Classroom 83	Fall	2022	4th Grade	Social Studies	36	21	62	26.00	-26.00	676
Classroom 86	Fall	2022	4th Grade	Social Studies	34	24	56	22.00	-22.00	484
Classroom 91	Fall	2022	4th Grade	Integrated Science	56.4	21	72.5	16.10	-16.10	259.21
Classroom 92	Fall	2022	4th Grade	Social Studies	50.43	24	84	33.57	-33.57	1126.9449
Classroom 93	Fall	2022	4th Grade	Social Studies	36	16	98	62.00	-62.00	3844
Classroom 107	Fall	2022	4th Grade	Integrated Science	56	24	90	34.00	-34.00	1156
Classroom 112	Fall	2022	4th Grade	Social Studies	6.7	23	75	68.30	-68.30	4664.89
Classroom 118	Fall	2022	4th Grade	Social Studies	5.2	17	80.7	75.50	-75.50	5700.25
Classroom 119	Fall	2022	4th Grade	Integrated Science	50	20	83	33.00	-33.00	1089
Classroom 121	Fall	2022	4th Grade	Social Studies	71	30	90	19.00	-19.00	361
Classroom 122	Fall	2022	4th Grade	Integrated Science	28	27	61	33.00	-33.00	1089
Classroom 134	Winter	2022	4th Grade	Integrated Science	36	24	70	34.00	-34.00	1156
Classroom 142	Winter	2022	4th Grade	Integrated Science	73	22	72.7	-0.30	0.30	0.09
Classroom 145	Winter	2022	4th Grade	Social Studies	17	24	32.56	15.56	-15.56	242.1136
Classroom 146	Winter	2022	4th Grade	Integrated Science	52	16	92	40.00	-40.00	1600
Classroom 157	Winter	2022	4th Grade	Social Studies	68	22	87	19.00	-19.00	361
Classroom 161	Winter	2022	4th Grade	Integrated Science	76	18	83	7.00	-7.00	49
Classroom 162	Winter	2022	4th Grade	Social Studies	56	20	62	6.00	-6.00	36
Classroom 181	Winter	2022	4th Grade	Social Studies	50	20	83	33.00	-33.00	1089
Classroom 191	Winter	2022	4th Grade	Social Studies	28	23	63	35.00	-35.00	1225
Classroom 220	Winter	2022	4th Grade	Integrated Science	42	17	81	39.00	-39.00	1521
Classroom 227	Winter	2022	4th Grade	Integrated Science	30.25	15	62	31.75	-31.75	1008.0625
Classroom 266	Winter	2022	4th Grade	Social Studies	49.44	22	78.75	29.31	-29.31	859.0761
Classroom 268	Winter	2022	4th Grade	Social Studies	28	22	67	39.00	-39.00	1521

Classroom 274	Winter	2022	4th Grade	Integrated Science	75	23	89	14.00	-14.00	196
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Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-1113.69	44081.25
38	793	29.31	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-29.31
M =Middle value	11441.63
O =Bottom Value	1406.00
P =Square root of M/O	2.85
T = (L/P)	-10.27
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.667

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 9	Fall	2022	5th Grade	Social Studies	56	16	74	18.00	-18.00	324
Classroom 33	Fall	2022	5th Grade	Social Studies	17	19	62	45.00	-45.00	2025
Classroom 35	Fall	2022	5th Grade	Integrated Science	41.5	21	47.9	6.40	-6.40	40.96
Classroom 47	Fall	2022	5th Grade	Social Studies	31	26	63	32.00	-32.00	1024
Classroom 50	Fall	2022	5th Grade	Integrated Science	53	21	73	20.00	-20.00	400
Classroom 52	Fall	2022	5th Grade	Integrated Science	43	21	87	44.00	-44.00	1936
Classroom 56	Fall	2022	5th Grade	Integrated Science	51	22	69	18.00	-18.00	324
Classroom 63	Fall	2022	5th Grade	Integrated Science	34.7	22	68	33.30	-33.30	1108.89
Classroom 75	Fall	2022	5th Grade	Social Studies	50	13	79	29.00	-29.00	841
Classroom 79	Fall	2022	5th Grade	Social Studies	31	19	69	38.00	-38.00	1444
Classroom 96	Fall	2022	5th Grade	Integrated Science	33	16	77	44.00	-44.00	1936
Classroom 101	Fall	2022	5th Grade	Integrated Science	72	25	84	12.00	-12.00	144
Classroom 106	Fall	2022	5th Grade	Integrated Science	56.8	26	83	26.20	-26.20	686.44
Classroom 110	Fall	2022	5th Grade	Social Studies	30	18	75	45.00	-45.00	2025
Classroom 125	Fall	2022	5th Grade	Integrated Science	54.55	23	87.3	32.75	-32.75	1072.5625
Classroom 128	Winter	2022	5th Grade	Integrated Science	65	24	80	15.00	-15.00	225
Classroom 136	Winter	2022	5th Grade	Social Studies	48	20	68	20.00	-20.00	400
Classroom 140	Winter	2022	5th Grade	Integrated Science	30.95	21	80	49.05	-49.05	2405.9025
Classroom 153	Winter	2022	5th Grade	Social Studies	23.21	15	85	61.79	-61.79	3818.0041
Classroom 165	Winter	2022	5th Grade	Social Studies	54.1	24	52.5	-1.60	1.60	2.56
Classroom 170	Winter	2022	5th Grade	Music	86	24	95	9.00	-9.00	81
Classroom 172	Winter	2022	5th Grade	Art Education	55	20	90	35.00	-35.00	1225
Classroom 188	Winter	2022	5th Grade	Social Studies	42.5	20	62.5	20.00	-20.00	400
Classroom 189	Winter	2022	5th Grade	Social Studies	51	14	72	21.00	-21.00	441
Classroom 197	Winter	2022	5th Grade	Social Studies	67	18	100	33.00	-33.00	1089
Classroom 209	Winter	2022	5th Grade	Integrated Science	44	21	79	35.00	-35.00	1225
Classroom 244	Winter	2022	5th Grade	Social Studies	56	21	75	19.00	-19.00	361
Classroom 245	Winter	2022	5th Grade	Integrated Science	32	25	100	68.00	-68.00	4624
Classroom 252	Winter	2022	5th Grade	Social Studies	74	22	84	10.00	-10.00	100
Classroom 253	Winter	2022	5th Grade	Integrated Science	33.1	21	88	54.90	-54.90	3014.01
Classroom 254	Winter	2022	5th Grade	Social Studies	38	26	64	26.00	-26.00	676
Classroom 256	Winter	2022	5th Grade	Social Studies	25.7	16	65.2	39.50	-39.50	1560.25
Classroom 258	Winter	2022	5th Grade	Social Studies	20	19	47	27.00	-27.00	729
Classroom 260	Winter	2022	5th Grade	Social Studies	45.55	22	65	19.45	-19.45	378.3025
Classroom 265	Winter	2022	5th Grade	Social Studies	39	21	77	38.00	-38.00	1444
Classroom 270	Winter	2022	5th Grade	Social Studies	54	21	71	17.00	-17.00	289
Classroom 271	Winter	2022	5th Grade	Social Studies	47	23	61	14.00	-14.00	196

Classroom 280	Winter	2022	5th Grade	Integrated Science	23	13	67	44.00	-44.00	1936
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Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-1117.74	41951.88
38	771	29.41	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-29.41
M =Middle value	9074.44
O =Bottom Value	1406.00
P =Square root of M/O	2.54
T = (L/P)	-11.58
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.878

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 5	Fall	2022	7th Grade	French	74	28	78	4.00	-4.00	16
Classroom 6	Fall	2022	7th Grade	English	21	107	58.88	37.88	-37.88	1434.8944
Classroom 7	Fall	2022	8th Grade	Spanish	2	38	73	71.00	-71.00	5041
Classroom 11	Fall	2022	8th Grade	Social Studies	45	111	79	34.00	-34.00	1156
Classroom 15	Fall	2022	6th Grade	Social Studies	43	31	80	37.00	-37.00	1369
Classroom 18	Fall	2022	8th Grade	Social Studies	53.4	56	86.5	33.10	-33.10	1095.61
Classroom 41	Fall	2022	8th Grade	Mathematics	48.3	116	81.1	32.80	-32.80	1075.84
Classroom 45	Fall	2022	7th Grade	Mathematics	20.33	25	74.25	53.92	-53.92	2907.3664
Classroom 129	Winter	2022	6th Grade	Art Education	9.48	21	65.33	55.85	-55.85	3119.2225
Classroom 130	Winter	2022	7th Grade	Mathematics	51.3636	43	70.56	19.20	-19.20	368.501773
Classroom 131	Winter	2022	6th Grade	Social Studies	67.6	51	78.4	10.80	-10.80	116.64
Classroom 138	Winter	2022	8th Grade	English	49	29	95.09	46.09	-46.09	2124.2881
Classroom 143	Winter	2022	8th Grade	Social Studies	36.4	34	72.9	36.50	-36.50	1332.25
Classroom 148	Winter	2022	8th Grade	Mathematics	13	11	67	54.00	-54.00	2916
Classroom 164	Winter	2022	6th Grade	Earth Science	36	31	79	43.00	-43.00	1849
Classroom 173	Winter	2022	8th Grade	Music	50.1	9	88	37.90	-37.90	1436.41
Classroom 178	Winter	2022	8th Grade	Social Studies	60	164	70.2	10.20	-10.20	104.04
Classroom 179	Winter	2022	8th Grade	English Language Arts	51	31	82	31.00	-31.00	961
Classroom 180	Winter	2022	7th Grade	Mathematics	14.4	128	83.6	69.20	-69.20	4788.64
Classroom 184	Winter	2022	7th Grade	English Language Arts	83.278	71	93.4	10.12	-10.12	102.454884
Classroom 186	Winter	2022	7th Grade	Social Studies	47	121	73	26.00	-26.00	676
Classroom 192	Winter	2022	6th Grade	Social Studies	81	120	88	7.00	-7.00	49
Classroom 195	Winter	2022	8th Grade	Mathematics	21.3	9	53.7	32.40	-32.40	1049.76
Classroom 198	Winter	2022	7th Grade	English Language Arts	59	116	62	3.00	-3.00	9
Classroom 205	Winter	2022	7th Grade	Social Studies	70.14	117	94.14	24.00	-24.00	576
Classroom 211	Winter	2022	7th Grade	Social Studies	40.6	26	77.1	36.50	-36.50	1332.25
Classroom 214	Winter	2022	6th Grade	English Language Arts	42.1	22	74.2	32.10	-32.10	1030.41
Classroom 217	Winter	2022	7th Grade	English Language Arts	59	87	81	22.00	-22.00	484
Classroom 221	Winter	2022	6th Grade	English Language Arts	66.77	45	75.48	8.71	-8.71	75.8641
Classroom 222	Winter	2022	6th Grade	Physical Education	81.346	78	64.872	-16.47	16.47	271.392676
Classroom 226	Winter	2022	8th Grade	Music	80.8	34	85.8	5.00	-5.00	25
Classroom 230	Winter	2022	7th Grade	Social Studies	28	72	75	47.00	-47.00	2209
Classroom 231	Winter	2022	7th Grade	Music	74.5	22	77.1	2.60	-2.60	6.76
Classroom 236	Winter	2022	8th Grade	English Language Arts	39	27	76	37.00	-37.00	1369
Classroom 238	Winter	2022	8th Grade	English Language Arts	54	75	82	28.00	-28.00	784
Classroom 239	Winter	2022	7th Grade	Physical Education	47	52	86	39.00	-39.00	1521
Classroom 240	Winter	2022	7th Grade	Music	50	13	83	33.00	-33.00	1089

Classroom 241	Winter	2022	8th Grade	Spanish	36.1	66	81	44.90	-44.90	2016.01
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Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-1139.29	47887.60
38	2232	29.98	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-29.98
M =Middle value	13729.93
O =Bottom Value	1406.00
P =Square root of M/O	3.12
T = (L/P)	-9.59
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.556

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 1	Fall	2022	9th Grade	English	36.33	52	72	35.67	-35.67	1272.3489
Classroom 10	Fall	2022	10th Grade	Social Studies	53	60	83	30.00	-30.00	900
Classroom 14	Fall	2022	12th Grade	Social Studies	57.52	70	82.51	24.99	-24.99	624.5001
Classroom 24	Fall	2022	10th Grade	Mathematics	37.06	72	58.94	21.88	-21.88	478.7344
Classroom 29	Fall	2022	10th Grade	Music	31.95	28	77.5	45.55	-45.55	2074.8025
Classroom 31	Fall	2022	11th Grade	Mathematics	10.8	69	53.6	42.80	-42.80	1831.84
Classroom 40	Fall	2022	11th Grade	Biology	37	26	55	18.00	-18.00	324
Classroom 42	Fall	2022	9th Grade	Physical Education	40	26	83	43.00	-43.00	1849
Classroom 53	Fall	2022	9th Grade	Art Education	39	70	81	42.00	-42.00	1764
Classroom 55	Fall	2022	11th Grade	English	52.6	49	65.2	12.60	-12.60	158.76
Classroom 58	Fall	2022	11th Grade	English	87.88	79	82.34	-5.54	5.54	30.6916
Classroom 59	Fall	2022	9th Grade	Physical Education	62	65	96	34.00	-34.00	1156
Classroom 60	Fall	2022	10th Grade	Social Studies	40	64	73	33.00	-33.00	1089
Classroom 61	Fall	2022	10th Grade	English	37	47	87.5	50.50	-50.50	2550.25
Classroom 62	Fall	2022	10th Grade	Social Studies	26	52	91	65.00	-65.00	4225
Classroom 141	Winter	2022	10th Grade	Mathematics	4.4	18	81.3	76.90	-76.90	5913.61
Classroom 144	Winter	2022	12th Grade	Geology	52	80	84	32.00	-32.00	1024
Classroom 154	Winter	2022	11th Grade	Mathematics	30	44	80.39	50.39	-50.39	2539.1521
Classroom 155	Winter	2022	10th Grade	Mathematics	5	25	84	79.00	-79.00	6241
Classroom 160	Winter	2022	10th Grade	Social Studies	33	25	70	37.00	-37.00	1369
Classroom 167	Winter	2022	9th Grade	Social Studies	60	49	80	20.00	-20.00	400
Classroom 171	Winter	2022	11th Grade	Mathematics	30.7	32	74	43.30	-43.30	1874.89
Classroom 174	Winter	2022	9th Grade	English	38	25	77	39.00	-39.00	1521
Classroom 176	Winter	2022	12th Grade	Music	56	17	91	35.00	-35.00	1225
Classroom 177	Winter	2022	11th Grade	Mathematics	3.75	30	88.75	85.00	-85.00	7225
Classroom 183	Winter	2022	10th Grade	Mathematics	5	22	76	71.00	-71.00	5041
Classroom 190	Winter	2022	10th Grade	Mathematics	35	72	85	50.00	-50.00	2500
Classroom 193	Winter	2022	10th Grade	Social Studies	37	105	59	22.00	-22.00	484
Classroom 194	Winter	2022	11th Grade	Social Studies	72	32	88	16.00	-16.00	256
Classroom 201	Winter	2022	11th Grade	Music	31	52	46	15.00	-15.00	225
Classroom 206	Winter	2022	10th Grade	English	22.7	18	50.7	28.00	-28.00	784
Classroom 207	Winter	2022	9th Grade	Physical Education	67.8	28	87.5	19.70	-19.70	388.09
Classroom 210	Winter	2022	9th Grade	Earth Science	51.3	106	79.8	28.50	-28.50	812.25
Classroom 212	Winter	2022	9th Grade	Mathematics	5	15	80	75.00	-75.00	5625
Classroom 213	Winter	2022	12th Grade	English	46	10	84	38.00	-38.00	1444
Classroom 215	Winter	2022	10th Grade	Social Studies	38	18	67	29.00	-29.00	841
Classroom 216	Winter	2022	11th Grade	English	56.67	15	87.33	30.66	-30.66	940.0356

Classroom 218	Winter	2022	9th Grade	Social Studies	27.8	78	76.8	49.00	-49.00	2401
Classroom 223	Winter	2022	11th Grade	Mathematics	55.5	42	77.35	21.85	-21.85	477.4225
Classroom 224	Winter	2022	9th Grade	Social Studies	29	25	78	49.00	-49.00	2401
Classroom 225	Winter	2022	10th Grade	Chemistry	40.18	72	75.34	35.16	-35.16	1236.2256
Classroom 228	Winter	2022	9th Grade	Social Studies	31	81	84	53.00	-53.00	2809
Classroom 232	Winter	2022	12th Grade	Physical Education	22	49	68	46.00	-46.00	2116
Classroom 233	Winter	2022	11th Grade	Mathematics	74	25	85	11.00	-11.00	121
Classroom 234	Winter	2022	11th Grade	Physics	40	36	89	49.00	-49.00	2401
Classroom 235	Winter	2022	10th Grade	Mathematics	19.5	40	76.7	57.20	-57.20	3271.84

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-1785.11	86236.44
46	2109	38.81	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-38.81
M =Middle value	16962.15
O =Bottom Value	2070.00
P =Square root of M/O	2.86
T = (L/P)	-13.56
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.999

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 28	Fall	2022	3rd Grade	Music	57	74	70.27	13.27	-13.27	176.0929
Classroom 29	Fall	2022	10th Grade	Music	31.95	28	77.5	45.55	-45.55	2074.8025
Classroom 53	Fall	2022	9th Grade	Art Education	39	70	81	42.00	-42.00	1764
Classroom 129	Winter	2022	6th Grade	Art Education	9.48	21	65.33	55.85	-55.85	3119.2225
Classroom 170	Winter	2022	5th Grade	Music	86	24	95	9.00	-9.00	81
Classroom 172	Winter	2022	5th Grade	Art Education	55	20	90	35.00	-35.00	1225
Classroom 173	Winter	2022	8th Grade	Music	50.1	9	88	37.90	-37.90	1436.41
Classroom 176	Winter	2022	12th Grade	Music	56	17	91	35.00	-35.00	1225
Classroom 201	Winter	2022	11th Grade	Music	31	52	46	15.00	-15.00	225
Classroom 226	Winter	2022	8th Grade	Music	80.8	34	85.8	5.00	-5.00	25
Classroom 231	Winter	2022	7th Grade	Music	74.5	22	77.1	2.60	-2.60	6.76
Classroom 240	Winter	2022	7th Grade	Music	50	13	83	33.00	-33.00	1089

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-329.17	12447.29
12	383	27.43	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-27.43
M =Middle value	3417.88
O =Bottom Value	132.00
P =Square root of M/O	5.09
T = (L/P)	-5.39
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.556

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 1	Fall	2022	9th Grade	English	36.33	52	72	35.67	-35.67	1272.3489
Classroom 6	Fall	2022	7th Grade	English	21	107	58.88	37.88	-37.88	1434.8944
Classroom 55	Fall	2022	11th Grade	English	52.6	49	65.2	12.60	-12.60	158.76
Classroom 58	Fall	2022	11th Grade	English	87.88	79	82.34	-5.54	5.54	30.6916
Classroom 61	Fall	2022	10th Grade	English	37	47	87.5	50.50	-50.50	2550.25
Classroom 138	Winter	2022	8th Grade	English	49	29	95.09	46.09	-46.09	2124.2881
Classroom 174	Winter	2022	9th Grade	English	38	25	77	39.00	-39.00	1521
Classroom 179	Winter	2022	8th Grade	English Language Arts	51	31	82	31.00	-31.00	961
Classroom 184	Winter	2022	7th Grade	English Language Arts	83.278	71	93.4	10.12	-10.12	102.454884
Classroom 198	Winter	2022	7th Grade	English Language Arts	59	116	62	3.00	-3.00	9
Classroom 206	Winter	2022	10th Grade	English	22.7	18	50.7	28.00	-28.00	784
Classroom 213	Winter	2022	12th Grade	English	46	10	84	38.00	-38.00	1444
Classroom 214	Winter	2022	6th Grade	English Language Arts	42.1	22	74.2	32.10	-32.10	1030.41
Classroom 216	Winter	2022	11th Grade	English	56.67	15	87.33	30.66	-30.66	940.0356
Classroom 217	Winter	2022	7th Grade	English Language Arts	59	87	81	22.00	-22.00	484
Classroom 221	Winter	2022	6th Grade	English Language Arts	66.77	45	75.48	8.71	-8.71	75.8641
Classroom 236	Winter	2022	8th Grade	English Language Arts	39	27	76	37.00	-37.00	1369
Classroom 238	Winter	2022	8th Grade	English Language Arts	54	75	82	28.00	-28.00	784

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-484.79	17076.00
18	902	26.93	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-26.93
M =Middle value	4019.15
O =Bottom Value	306.00
P =Square root of M/O	3.62
T = (L/P)	-7.43
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.752

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 24	Fall	2022	10th Grade	Mathematics	37.06	72	58.94	21.88	-21.88	478.7344
Classroom 31	Fall	2022	11th Grade	Mathematics	10.8	69	53.6	42.80	-42.80	1831.84
Classroom 41	Fall	2022	8th Grade	Mathematics	48.3	116	81.1	32.80	-32.80	1075.84
Classroom 45	Fall	2022	7th Grade	Mathematics	20.33	25	74.25	53.92	-53.92	2907.3664
Classroom 130	Winter	2022	7th Grade	Mathematics	51.3636	43	70.56	19.20	-19.20	368.501773
Classroom 141	Winter	2022	10th Grade	Mathematics	4.4	18	81.3	76.90	-76.90	5913.61
Classroom 148	Winter	2022	8th Grade	Mathematics	13	11	67	54.00	-54.00	2916
Classroom 154	Winter	2022	11th Grade	Mathematics	30	44	80.39	50.39	-50.39	2539.1521
Classroom 155	Winter	2022	10th Grade	Mathematics	5	25	84	79.00	-79.00	6241
Classroom 171	Winter	2022	11th Grade	Mathematics	30.7	32	74	43.30	-43.30	1874.89
Classroom 177	Winter	2022	11th Grade	Mathematics	3.75	30	88.75	85.00	-85.00	7225
Classroom 180	Winter	2022	7th Grade	Mathematics	14.4	128	83.6	69.20	-69.20	4788.64
Classroom 183	Winter	2022	10th Grade	Mathematics	5	22	76	71.00	-71.00	5041
Classroom 190	Winter	2022	10th Grade	Mathematics	35	72	85	50.00	-50.00	2500
Classroom 195	Winter	2022	8th Grade	Mathematics	21.3	9	53.7	32.40	-32.40	1049.76
Classroom 212	Winter	2022	9th Grade	Mathematics	5	15	80	75.00	-75.00	5625
Classroom 223	Winter	2022	11th Grade	Mathematics	55.5	42	77.35	21.85	-21.85	477.4225
Classroom 233	Winter	2022	11th Grade	Mathematics	74	25	85	11.00	-11.00	121
Classroom 235	Winter	2022	10th Grade	Mathematics	19.5	40	76.7	57.20	-57.20	3271.84

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-946.84	56246.60
19	837	49.83	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-49.83
M =Middle value	9062.43
O =Bottom Value	342.00
P =Square root of M/O	5.15
T = (L/P)	-9.68
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-2.221

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 5	Fall	2022	7th Grade	French	74	28	78	4.00	-4.00	16
Classroom 7	Fall	2022	8th Grade	Spanish	2	38	73	71.00	-71.00	5041
Classroom 241	Winter	2022	8th Grade	Spanish	36.1	66	81	44.90	-44.90	2016.01

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-119.90	7073.01
3	132	39.97	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value ($\sum d/N$)	-39.97
M =Middle value	2281.01
O =Bottom Value	6.00
P =Square root of M/O	19.50
T = (L/P)	-2.05
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.183

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 42	Fall	2022	9th Grade	Physical Education	40	26	83	43.00	-43.00	1849
Classroom 59	Fall	2022	9th Grade	Physical Education	62	65	96	34.00	-34.00	1156
Classroom 207	Winter	2022	9th Grade	Physical Education	67.8	28	87.5	19.70	-19.70	388.09
Classroom 208	Winter	2022	3rd Grade	Physical Education	74	20	93.5	19.50	-19.50	380.25
Classroom 219	Winter	2022	2nd Grade	Physical Education	60	20	100	40.00	-40.00	1600
Classroom 222	Winter	2022	6th Grade	Physical Education	81.346	78	64.872	-16.47	16.47	271.392676
Classroom 229	Winter	2022	2nd Grade	Physical Education	46	24	93.5	47.50	-47.50	2256.25
Classroom 232	Winter	2022	12th Grade	Physical Education	22	49	68	46.00	-46.00	2116
Classroom 239	Winter	2022	7th Grade	Physical Education	47	52	86	39.00	-39.00	1521

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-272.23	11537.98
9	360	30.25	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-30.25
M =Middle value	3303.87
O =Bottom Value	72.00
P =Square root of M/O	6.77
T = (L/P)	-4.47
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.488

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 2	Fall	2022	4th Grade	Integrated Science	54	20	76	22.00	-22.00	484
Classroom 3	Fall	2022	4th Grade	Integrated Science	7.3	20	58.3	51.00	-51.00	2601
Classroom 8	Fall	2022	2nd Grade	Integrated Science	33	20	66	33.00	-33.00	1089
Classroom 16	Fall	2022	2nd Grade	Integrated Science	69	21	81	12.00	-12.00	144
Classroom 17	Fall	2022	2nd Grade	Integrated Science	44	20	69	25.00	-25.00	625
Classroom 19	Fall	2022	4th Grade	Integrated Science	40	14	85	45.00	-45.00	2025
Classroom 20	Fall	2022	4th Grade	Integrated Science	25	18	50	25.00	-25.00	625
Classroom 22	Fall	2022	4th Grade	Integrated Science	72	20	90	18.00	-18.00	324
Classroom 23	Fall	2022	3rd Grade	Integrated Science	28	16	75	47.00	-47.00	2209
Classroom 27	Fall	2022	4th Grade	Integrated Science	38	19	40	2.00	-2.00	4
Classroom 32	Fall	2022	1st Grade	Integrated Science	60	20	78	18.00	-18.00	324
Classroom 34	Fall	2022	Kindergarten	Integrated Science	92	21	96	4.00	-4.00	16
Classroom 35	Fall	2022	5th Grade	Integrated Science	41.5	21	47.9	6.40	-6.40	40.96
Classroom 36	Fall	2022	2nd Grade	Integrated Science	48	17	73	25.00	-25.00	625
Classroom 37	Fall	2022	4th Grade	Integrated Science	84	19	80	-4.00	4.00	16
Classroom 40	Fall	2022	11th Grade	Biology	37	26	55	18.00	-18.00	324
Classroom 44	Fall	2022	Kindergarten	Integrated Science	54.16	24	89.91	35.75	-35.75	1278.0625
Classroom 50	Fall	2022	5th Grade	Integrated Science	53	21	73	20.00	-20.00	400
Classroom 52	Fall	2022	5th Grade	Integrated Science	43	21	87	44.00	-44.00	1936
Classroom 54	Fall	2022	1st Grade	Integrated Science	51.2	25	92.4	41.20	-41.20	1697.44
Classroom 56	Fall	2022	5th Grade	Integrated Science	51	22	69	18.00	-18.00	324
Classroom 63	Fall	2022	5th Grade	Integrated Science	34.7	22	68	33.30	-33.30	1108.89
Classroom 66	Fall	2022	2nd Grade	Integrated Science	57	14	79	22.00	-22.00	484
Classroom 67	Fall	2022	4th Grade	Integrated Science	20	24	63	43.00	-43.00	1849
Classroom 68	Fall	2022	3rd Grade	Integrated Science	57	21	94	37.00	-37.00	1369
Classroom 69	Fall	2022	4th Grade	Integrated Science	65	21	100	35.00	-35.00	1225
Classroom 72	Fall	2022	1st Grade	Integrated Science	66.3	26	91.3	25.00	-25.00	625
Classroom 74	Fall	2022	2nd Grade	Integrated Science	57.78	14	68.89	11.11	-11.11	123.4321
Classroom 76	Fall	2022	1st Grade	Integrated Science	38.04	23	87.01	48.97	-48.97	2398.0609
Classroom 78	Fall	2022	1st Grade	Integrated Science	71	19	91	20.00	-20.00	400
Classroom 80	Fall	2022	3rd Grade	Integrated Science	36	19	92	56.00	-56.00	3136
Classroom 81	Fall	2022	2nd Grade	Integrated Science	35.6	18	75.9	40.30	-40.30	1624.09
Classroom 82	Fall	2022	4th Grade	Integrated Science	51	25	64	13.00	-13.00	169
Classroom 84	Fall	2022	Kindergarten	Integrated Science	76	17	99	23.00	-23.00	529
Classroom 85	Fall	2022	3rd Grade	Integrated Science	65	18	80	15.00	-15.00	225
Classroom 88	Fall	2022	2nd Grade	Integrated Science	50	21	81	31.00	-31.00	961
Classroom 91	Fall	2022	4th Grade	Integrated Science	56.4	21	72.5	16.10	-16.10	259.21

Classroom 94	Fall	2022	2nd Grade	Integrated Science	75	16	81	6.00	-6.00	36
Classroom 95	Fall	2022	3rd Grade	Integrated Science	53	22	86	33.00	-33.00	1089
Classroom 96	Fall	2022	5th Grade	Integrated Science	33	16	77	44.00	-44.00	1936
Classroom 97	Fall	2022	2nd Grade	Integrated Science	57	24	67	10.00	-10.00	100
Classroom 98	Fall	2022	Kindergarten	Integrated Science	47.22	20	85	37.78	-37.78	1427.3284
Classroom 100	Fall	2022	Kindergarten	Integrated Science	64	24	83	19.00	-19.00	361
Classroom 101	Fall	2022	5th Grade	Integrated Science	72	25	84	12.00	-12.00	144
Classroom 102	Fall	2022	3rd Grade	Integrated Science	59	25	87	28.00	-28.00	784
Classroom 103	Fall	2022	2nd Grade	Integrated Science	60	19	76	16.00	-16.00	256
Classroom 104	Fall	2022	Kindergarten	Integrated Science	67	24	95	28.00	-28.00	784
Classroom 106	Fall	2022	5th Grade	Integrated Science	56.8	26	83	26.20	-26.20	686.44
Classroom 107	Fall	2022	4th Grade	Integrated Science	56	24	90	34.00	-34.00	1156
Classroom 109	Fall	2022	3rd Grade	Integrated Science	74	24	85	11.00	-11.00	121
Classroom 111	Fall	2022	3rd Grade	Integrated Science	37	21	89	52.00	-52.00	2704
Classroom 113	Fall	2022	1st Grade	Integrated Science	66	21	82.5	16.50	-16.50	272.25
Classroom 114	Fall	2022	1st Grade	Integrated Science	34.21	19	75.66	41.45	-41.45	1718.1025
Classroom 115	Fall	2022	3rd Grade	Integrated Science	40.4	19	74	33.60	-33.60	1128.96
Classroom 117	Fall	2022	Kindergarten	Integrated Science	68	19	92.5	24.50	-24.50	600.25
Classroom 119	Fall	2022	4th Grade	Integrated Science	50	20	83	33.00	-33.00	1089
Classroom 120	Fall	2022	2nd Grade	Integrated Science	33	19	73	40.00	-40.00	1600
Classroom 122	Fall	2022	4th Grade	Integrated Science	28	27	61	33.00	-33.00	1089
Classroom 124	Fall	2022	Kindergarten	Integrated Science	98	16	93	-5.00	5.00	25
Classroom 125	Fall	2022	5th Grade	Integrated Science	54.55	23	87.3	32.75	-32.75	1072.5625
Classroom 127	Fall	2022	1st Grade	Integrated Science	63	21	78.75	15.75	-15.75	248.0625
Classroom 128	Winter	2022	5th Grade	Integrated Science	65	24	80	15.00	-15.00	225
Classroom 132	Winter	2022	Kindergarten	Integrated Science	47.59	26	62.91	15.32	-15.32	234.7024
Classroom 133	Winter	2022	1st Grade	Integrated Science	92	14	63	-29.00	29.00	841
Classroom 134	Winter	2022	4th Grade	Integrated Science	36	24	70	34.00	-34.00	1156
Classroom 135	Winter	2022	Kindergarten	Integrated Science	65	13	93	28.00	-28.00	784
Classroom 137	Winter	2022	Kindergarten	Integrated Science	67	24	96	29.00	-29.00	841
Classroom 140	Winter	2022	5th Grade	Integrated Science	30.95	21	80	49.05	-49.05	2405.9025
Classroom 142	Winter	2022	4th Grade	Integrated Science	73	22	72.7	-0.30	0.30	0.09
Classroom 144	Winter	2022	12th Grade	Geology	52	80	84	32.00	-32.00	1024
Classroom 146	Winter	2022	4th Grade	Integrated Science	52	16	92	40.00	-40.00	1600
Classroom 147	Winter	2022	1st Grade	Integrated Science	67	17	70	3.00	-3.00	9
Classroom 149	Winter	2022	Kindergarten	Integrated Science	79.5	15	93.8	14.30	-14.30	204.49
Classroom 150	Winter	2022	1st Grade	Integrated Science	49.8	17	66	16.20	-16.20	262.44
Classroom 151	Winter	2022	2nd Grade	Integrated Science	50	16	87	37.00	-37.00	1369
Classroom 152	Winter	2022	1st Grade	Integrated Science	89	23	96	7.00	-7.00	49
Classroom 158	Winter	2022	2nd Grade	Integrated Science	52	20	87	35.00	-35.00	1225

Classroom 159	Winter	2022	3rd Grade	Integrated Science	30	22	80	50.00	-50.00	2500
Classroom 161	Winter	2022	4th Grade	Integrated Science	76	18	83	7.00	-7.00	49
Classroom 163	Winter	2022	Kindergarten	Integrated Science	88	25	98	10.00	-10.00	100
Classroom 164	Winter	2022	6th Grade	Earth Science	36	31	79	43.00	-43.00	1849
Classroom 166	Winter	2022	2nd Grade	Integrated Science	67	20	77	10.00	-10.00	100
Classroom 169	Winter	2022	2nd Grade	Integrated Science	46	18	46	0.00	0.00	0
Classroom 175	Winter	2022	3rd Grade	Integrated Science	45.1	26	53.24	8.14	-8.14	66.2596
Classroom 182	Winter	2022	2nd Grade	Integrated Science	43	16	81	38.00	-38.00	1444
Classroom 199	Winter	2022	1st Grade	Integrated Science	50	16	80	30.00	-30.00	900
Classroom 200	Winter	2022	Kindergarten	Integrated Science	73	18	83	10.00	-10.00	100
Classroom 202	Winter	2022	Kindergarten	Integrated Science	43	15	78	35.00	-35.00	1225
Classroom 203	Winter	2022	3rd Grade	Integrated Science	85	24	82	-3.00	3.00	9
Classroom 204	Winter	2022	2nd Grade	Integrated Science	91	22	96	5.00	-5.00	25
Classroom 209	Winter	2022	5th Grade	Integrated Science	44	21	79	35.00	-35.00	1225
Classroom 210	Winter	2022	9th Grade	Earth Science	51.3	106	79.8	28.50	-28.50	812.25
Classroom 220	Winter	2022	4th Grade	Integrated Science	42	17	81	39.00	-39.00	1521
Classroom 225	Winter	2022	10th Grade	Chemistry	40.18	72	75.34	35.16	-35.16	1236.2256
Classroom 227	Winter	2022	4th Grade	Integrated Science	30.25	15	62	31.75	-31.75	1008.0625
Classroom 234	Winter	2022	11th Grade	Physics	40	36	89	49.00	-49.00	2401
Classroom 237	Winter	2022	3rd Grade	Integrated Science	45	16	85	40.00	-40.00	1600
Classroom 242	Winter	2022	1st Grade	Integrated Science	50	21	88	38.00	-38.00	1444
Classroom 243	Winter	2022	Kindergarten	Integrated Science	42	21	77	35.00	-35.00	1225
Classroom 245	Winter	2022	5th Grade	Integrated Science	32	25	100	68.00	-68.00	4624
Classroom 248	Winter	2022	3rd Grade	Integrated Science	15	22	85	70.00	-70.00	4900
Classroom 250	Winter	2022	Kindergarten	Integrated Science	75	20	97.5	22.50	-22.50	506.25
Classroom 251	Winter	2022	Kindergarten	Integrated Science	72	25	94.4	22.40	-22.40	501.76
Classroom 253	Winter	2022	5th Grade	Integrated Science	33.1	21	88	54.90	-54.90	3014.01
Classroom 255	Winter	2022	Kindergarten	Integrated Science	54	17	90	36.00	-36.00	1296
Classroom 259	Winter	2022	2nd Grade	Integrated Science	46	19	75	29.00	-29.00	841
Classroom 261	Winter	2022	3rd Grade	Integrated Science	47.3	16	78.23	30.93	-30.93	956.6649
Classroom 262	Winter	2022	1st Grade	Integrated Science	65.97	18	70.75	4.78	-4.78	22.8484
Classroom 263	Winter	2022	Kindergarten	Integrated Science	60	23	89.6	29.60	-29.60	876.16
Classroom 269	Winter	2022	3rd Grade	Integrated Science	60	18	83	23.00	-23.00	529
Classroom 272	Winter	2022	2nd Grade	Integrated Science	70	17	83	13.00	-13.00	169
Classroom 273	Winter	2022	3rd Grade	Integrated Science	34	15	85	51.00	-51.00	2601
Classroom 274	Winter	2022	4th Grade	Integrated Science	75	23	89	14.00	-14.00	196
Classroom 277	Winter	2022	3rd Grade	Integrated Science	43.4	23	82.4	39.00	-39.00	1521
Classroom 279	Winter	2022	Kindergarten	Integrated Science	60	18	98	38.00	-38.00	1444
Classroom 280	Winter	2022	5th Grade	Integrated Science	23	13	67	44.00	-44.00	1936

Number of Tests = N 116	Number of K-12 Students: 2540	Average % Improvement: 26.63
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$$t = \frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^2 - \frac{(\sum d)^2}{N}}{N(N-1)}}$$

-3088.89	113030.22
"X-Y" or "ED"	"(X-Y)^2" or "ED^2"
L =Top Value ($\sum d/N$)	-26.63
M =Middle value	30778.14
O =Bottom Value	13340.00
P =Square root of M/O	1.52
T = (L/P)	-17.53
$\alpha = 0.05$	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.628

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 4	Fall	2022	3rd Grade	Social Studies	15.9	22	79	63.10	-63.10	3981.61
Classroom 9	Fall	2022	5th Grade	Social Studies	56	16	74	18.00	-18.00	324
Classroom 10	Fall	2022	10th Grade	Social Studies	53	60	83	30.00	-30.00	900
Classroom 11	Fall	2022	8th Grade	Social Studies	45	111	79	34.00	-34.00	1156
Classroom 12	Fall	2022	4th Grade	Social Studies	48	21	88	40.00	-40.00	1600
Classroom 13	Fall	2022	Kindergarten	Social Studies	82.1	21	92	9.90	-9.90	98.01
Classroom 14	Fall	2022	12th Grade	Social Studies	57.52	70	82.51	24.99	-24.99	624.5001
Classroom 15	Fall	2022	6th Grade	Social Studies	43	31	80	37.00	-37.00	1369
Classroom 18	Fall	2022	8th Grade	Social Studies	53.4	56	86.5	33.10	-33.10	1095.61
Classroom 21	Fall	2022	1st Grade	Social Studies	44.6	15	85.7	41.10	-41.10	1689.21
Classroom 25	Fall	2022	1st Grade	Social Studies	40	20	79	39.00	-39.00	1521
Classroom 26	Fall	2022	1st Grade	Social Studies	44	22	65	21.00	-21.00	441
Classroom 30	Fall	2022	2nd Grade	Social Studies	42	20	76	34.00	-34.00	1156
Classroom 33	Fall	2022	5th Grade	Social Studies	17	19	62	45.00	-45.00	2025
Classroom 38	Fall	2022	3rd Grade	Social Studies	71.3	20	90	18.70	-18.70	349.69
Classroom 39	Fall	2022	4th Grade	Social Studies	48.6	22	85.5	36.90	-36.90	1361.61
Classroom 43	Fall	2022	2nd Grade	Social Studies	57	21	83	26.00	-26.00	676
Classroom 46	Fall	2022	2nd Grade	Social Studies	63	17	86	23.00	-23.00	529
Classroom 47	Fall	2022	5th Grade	Social Studies	31	26	63	32.00	-32.00	1024
Classroom 48	Fall	2022	2nd Grade	Social Studies	19	12	95.8	76.80	-76.80	5898.24
Classroom 49	Fall	2022	Kindergarten	Social Studies	59	15	91	32.00	-32.00	1024
Classroom 51	Fall	2022	2nd Grade	Social Studies	68	22	61	-7.00	7.00	49
Classroom 57	Fall	2022	3rd Grade	Social Studies	39.83	21	67.58	27.75	-27.75	770.0625
Classroom 60	Fall	2022	10th Grade	Social Studies	40	64	73	33.00	-33.00	1089
Classroom 62	Fall	2022	10th Grade	Social Studies	26	52	91	65.00	-65.00	4225
Classroom 64	Fall	2022	1st Grade	Social Studies	70	24	90	20.00	-20.00	400
Classroom 65	Fall	2022	4th Grade	Social Studies	48	24	70	22.00	-22.00	484
Classroom 70	Fall	2022	2nd Grade	Social Studies	53	21	82	29.00	-29.00	841
Classroom 71	Fall	2022	2nd Grade	Social Studies	49.7	22	66	16.30	-16.30	265.69
Classroom 73	Fall	2022	3rd Grade	Social Studies	30	22	85	55.00	-55.00	3025
Classroom 75	Fall	2022	5th Grade	Social Studies	50	13	79	29.00	-29.00	841
Classroom 77	Fall	2022	Kindergarten	Social Studies	36	15	83.75	47.75	-47.75	2280.0625
Classroom 79	Fall	2022	5th Grade	Social Studies	31	19	69	38.00	-38.00	1444
Classroom 83	Fall	2022	4th Grade	Social Studies	36	21	62	26.00	-26.00	676
Classroom 86	Fall	2022	4th Grade	Social Studies	34	24	56	22.00	-22.00	484
Classroom 87	Fall	2022	2nd Grade	Social Studies	47.8	24	92.7	44.90	-44.90	2016.01
Classroom 89	Fall	2022	1st Grade	Social Studies	20	43	71	51.00	-51.00	2601

Classroom 90	Fall	2022	2nd Grade	Social Studies	76	22	100	24.00	-24.00	576
Classroom 92	Fall	2022	4th Grade	Social Studies	50.43	24	84	33.57	-33.57	1126.9449
Classroom 93	Fall	2022	4th Grade	Social Studies	36	16	98	62.00	-62.00	3844
Classroom 99	Fall	2022	2nd Grade	Social Studies	49.62	19	74.43	24.81	-24.81	615.5361
Classroom 105	Fall	2022	3rd Grade	Social Studies	14.3	13	75.9	61.60	-61.60	3794.56
Classroom 108	Fall	2022	Kindergarten	Social Studies	72	20	88	16.00	-16.00	256
Classroom 110	Fall	2022	5th Grade	Social Studies	30	18	75	45.00	-45.00	2025
Classroom 112	Fall	2022	4th Grade	Social Studies	6.7	23	75	68.30	-68.30	4664.89
Classroom 116	Fall	2022	3rd Grade	Social Studies	68	23	78	10.00	-10.00	100
Classroom 118	Fall	2022	4th Grade	Social Studies	5.2	17	80.7	75.50	-75.50	5700.25
Classroom 121	Fall	2022	4th Grade	Social Studies	71	30	90	19.00	-19.00	361
Classroom 123	Fall	2022	2nd Grade	Social Studies	55	17	93	38.00	-38.00	1444
Classroom 126	Fall	2022	3rd Grade	Social Studies	30	19	92	62.00	-62.00	3844
Classroom 131	Winter	2022	6th Grade	Social Studies	67.6	51	78.4	10.80	-10.80	116.64
Classroom 136	Winter	2022	5th Grade	Social Studies	48	20	68	20.00	-20.00	400
Classroom 139	Winter	2022	1st Grade	Social Studies	73	16	88	15.00	-15.00	225
Classroom 143	Winter	2022	8th Grade	Social Studies	36.4	34	72.9	36.50	-36.50	1332.25
Classroom 145	Winter	2022	4th Grade	Social Studies	17	24	32.56	15.56	-15.56	242.1136
Classroom 153	Winter	2022	5th Grade	Social Studies	23.21	15	85	61.79	-61.79	3818.0041
Classroom 156	Winter	2022	Kindergarten	Social Studies	66	19	93	27.00	-27.00	729
Classroom 157	Winter	2022	4th Grade	Social Studies	68	22	87	19.00	-19.00	361
Classroom 160	Winter	2022	10th Grade	Social Studies	33	25	70	37.00	-37.00	1369
Classroom 162	Winter	2022	4th Grade	Social Studies	56	20	62	6.00	-6.00	36
Classroom 165	Winter	2022	5th Grade	Social Studies	54.1	24	52.5	-1.60	1.60	2.56
Classroom 167	Winter	2022	9th Grade	Social Studies	60	49	80	20.00	-20.00	400
Classroom 168	Winter	2022	2nd Grade	Social Studies	40	16	60	20.00	-20.00	400
Classroom 178	Winter	2022	8th Grade	Social Studies	60	164	70.2	10.20	-10.20	104.04
Classroom 181	Winter	2022	4th Grade	Social Studies	50	20	83	33.00	-33.00	1089
Classroom 185	Winter	2022	1st Grade	Social Studies	16.2	19	83	66.80	-66.80	4462.24
Classroom 186	Winter	2022	7th Grade	Social Studies	47	121	73	26.00	-26.00	676
Classroom 187	Winter	2022	1st Grade	Social Studies	45	14	78	33.00	-33.00	1089
Classroom 188	Winter	2022	5th Grade	Social Studies	42.5	20	62.5	20.00	-20.00	400
Classroom 189	Winter	2022	5th Grade	Social Studies	51	14	72	21.00	-21.00	441
Classroom 191	Winter	2022	4th Grade	Social Studies	28	23	63	35.00	-35.00	1225
Classroom 192	Winter	2022	6th Grade	Social Studies	81	120	88	7.00	-7.00	49
Classroom 193	Winter	2022	10th Grade	Social Studies	37	105	59	22.00	-22.00	484
Classroom 194	Winter	2022	11th Grade	Social Studies	72	32	88	16.00	-16.00	256
Classroom 196	Winter	2022	2nd Grade	Social Studies	54	17	79	25.00	-25.00	625
Classroom 197	Winter	2022	5th Grade	Social Studies	67	18	100	33.00	-33.00	1089
Classroom 205	Winter	2022	7th Grade	Social Studies	70.14	117	94.14	24.00	-24.00	576

Classroom 211	Winter	2022	7th Grade	Social Studies	40.6	26	77.1	36.50	-36.50	1332.25
Classroom 215	Winter	2022	10th Grade	Social Studies	38	18	67	29.00	-29.00	841
Classroom 218	Winter	2022	9th Grade	Social Studies	27.8	78	76.8	49.00	-49.00	2401
Classroom 224	Winter	2022	9th Grade	Social Studies	29	25	78	49.00	-49.00	2401
Classroom 228	Winter	2022	9th Grade	Social Studies	31	81	84	53.00	-53.00	2809
Classroom 230	Winter	2022	7th Grade	Social Studies	28	72	75	47.00	-47.00	2209
Classroom 244	Winter	2022	5th Grade	Social Studies	56	21	75	19.00	-19.00	361
Classroom 246	Winter	2022	3rd Grade	Social Studies	0	22	35	35.00	-35.00	1225
Classroom 247	Winter	2022	3rd Grade	Social Studies	44.5	21	73.3	28.80	-28.80	829.44
Classroom 249	Winter	2022	3rd Grade	Social Studies	45	18	82.8	37.80	-37.80	1428.84
Classroom 252	Winter	2022	5th Grade	Social Studies	74	22	84	10.00	-10.00	100
Classroom 254	Winter	2022	5th Grade	Social Studies	38	26	64	26.00	-26.00	676
Classroom 256	Winter	2022	5th Grade	Social Studies	25.7	16	65.2	39.50	-39.50	1560.25
Classroom 257	Winter	2022	3rd Grade	Social Studies	46	24	85	39.00	-39.00	1521
Classroom 258	Winter	2022	5th Grade	Social Studies	20	19	47	27.00	-27.00	729
Classroom 260	Winter	2022	5th Grade	Social Studies	45.55	22	65	19.45	-19.45	378.3025
Classroom 264	Winter	2022	1st Grade	Social Studies	75	13	100	25.00	-25.00	625
Classroom 265	Winter	2022	5th Grade	Social Studies	39	21	77	38.00	-38.00	1444
Classroom 266	Winter	2022	4th Grade	Social Studies	49.44	22	78.75	29.31	-29.31	859.0761
Classroom 267	Winter	2022	2nd Grade	Social Studies	7	41	7	0.00	0.00	0
Classroom 268	Winter	2022	4th Grade	Social Studies	28	22	67	39.00	-39.00	1521
Classroom 270	Winter	2022	5th Grade	Social Studies	54	21	71	17.00	-17.00	289
Classroom 271	Winter	2022	5th Grade	Social Studies	47	23	61	14.00	-14.00	196
Classroom 275	Winter	2022	3rd Grade	Social Studies	26	23	82	56.00	-56.00	3136
Classroom 276	Winter	2022	3rd Grade	Social Studies	21	38	83	62.00	-62.00	3844
Classroom 278	Winter	2022	1st Grade	Social Studies	54	14	86	32.00	-32.00	1024

Number of Tests = N	Number of K-12 Students:	Average % Improvement:	-3291.48	134423.49
103	3197	31.96	"X-Y" or "ED"	"(X-Y)^2" or "ED^2"

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

L =Top Value (Σd/N)	-31.96
M =Middle value	29240.57
O =Bottom Value	10506.00
P =Square root of M/O	1.67
T = (L/P)	-19.15
α = 0.05	Critical T = 1.645
	Significant
T/Square Root of N = Effect	-1.887