| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 428 | Winter | 2019 | Kindergarten | Mathematics | 77.60 | 25 | 87.20 | 9.60 | -9.60 | 92.16 |
| Classroom 429 | Winter | 2019 | 5th Grade | Integrated Science | 36.97 | 50 | 92.47 | 55.50 | -55.50 | 3080.25 |
| Classroom 430 | Winter | 2019 | 6th Grade | Music | 5.00 | 23 | 6.00 | 1.00 | -1.00 | 1 |
| Classroom 431 | Winter | 2019 | 6th Grade | Mathematics | 18.60 | 14 | 91.40 | 72.80 | -72.80 | 5299.84 |
| Classroom 432 | Winter | 2019 | 1st Grade | Integrated Science | 31.50 | 19 | 75.40 | 43.90 | -43.90 | 1927.21 |
| Classroom 433 | Winter | 2019 | 5th Grade | Mathematics | 71.00 | 25 | 90.00 | 19.00 | -19.00 | 361 |
| Classroom 434 | Winter | 2019 | 11th Grade | Mathematics | 2.00 | 28 | 75.00 | 73.00 | -73.00 | 5329 |
| Classroom 435 | Winter | 2019 | 5th Grade | Integrated Science | 12.78 | 27 | 83.11 | 70.33 | -70.33 | 4946.3089 |
| Classroom 436 | Winter | 2019 | 5th Grade | Music | 32.00 | 32 | 99.00 | 67.00 | -67.00 | 4489 |
| Classroom 437 | Winter | 2019 | 7th Grade | English | 48.00 | 62 | 92.00 | 44.00 | -44.00 | 1936 |
| Classroom 438 | Winter | 2019 | 6th Grade | Social Studies | 22.00 | 129 | 94.00 | 72.00 | -72.00 | 5184 |
| Classroom 439 | Winter | 2019 | 4th Grade | Integrated Science | 44.00 | 19 | 82.35 | 38.35 | -38.35 | 1470.7225 |
| Classroom 440 | Winter | 2019 | Kindergarten | Integrated Science | 60.40 | 20 | 98.40 | 38.00 | -38.00 | 1444 |
| Classroom 441 | Winter | 2019 | 10th Grade | Social Studies | 40.00 | 90 | 75.00 | 35.00 | -35.00 | 1225 |
| Classroom 442 | Winter | 2019 | 1st Grade | Integrated Science | 47.00 | 19 | 74.00 | 27.00 | -27.00 | 729 |
| Classroom 443 | Winter | 2019 | 1st Grade | Integrated Science | 23.00 | 19 | 82.00 | 59.00 | -59.00 | 3481 |
| Classroom 444 | Winter | 2019 | 11th Grade | Social Studies | 5.28 | 116 | 12.54 | 7.26 | -7.26 | 52.7076 |
| Classroom 445 | Winter | 2019 | 12th Grade | Music | 49.53 | 43 | 92.56 | 43.03 | -43.03 | 1851.5809 |
| Classroom 446 | Winter | 2019 | 8th Grade | Mathematics | 21.00 | 24 | 90.00 | 69.00 | -69.00 | 4761 |
| Classroom 447 | Winter | 2019 | 10th Grade | Social Studies | 3.57 | 40 | 85.00 | 81.43 | -81.43 | 6630.8449 |
| Classroom 448 | Winter | 2019 | 11th Grade | English | 49.50 | 20 | 67.30 | 17.80 | -17.80 | 316.84 |
| Classroom 449 | Winter | 2019 | 6th Grade | Social Studies | 46.00 | 34 | 78.00 | 32.00 | -32.00 | 1024 |
| Classroom 450 | Winter | 2019 | 2nd Grade | Mathematics | 14.90 | 21 | 59.40 | 44.50 | -44.50 | 1980.25 |
| Classroom 451 | Winter | 2019 | 2nd Grade | Integrated Science | 62.60 | 22 | 92.40 | 29.80 | -29.80 | 888.04 |
| Classroom 452 | Winter | 2019 | 9th Grade | Earth Science | 40.00 | 11 | 72.00 | 32.00 | -32.00 | 1024 |
| Classroom 453 | Winter | 2019 | 9th Grade | Social Studies | 19.00 | 32 | 77.00 | 58.00 | -58.00 | 3364 |
| Classroom 454 | Winter | 2019 | 6th Grade | Music | 68.00 | 37 | 88.00 | 20.00 | -20.00 | 400 |
| Classroom 455 | Winter | 2019 | 11th Grade | Economics | 55.00 | 21 | 88.00 | 33.00 | -33.00 | 1089 |
| Classroom 456 | Winter | 2019 | 10th Grade | Social Studies | 44.40 | 47 | 79.53 | 35.13 | -35.13 | 1234.1169 |
| Classroom 457 | Winter | 2019 | 4th Grade | Mathematics | 65.00 | 22 | 82.00 | 17.00 | -17.00 | 289 |
| Classroom 458 | Winter | 2019 | 10th Grade | Social Studies | 52.95 | 52 | 68.35 | 15.40 | -15.40 | 237.16 |
| Classroom 459 | Winter | 2019 | 5th Grade | Mathematics | 2.30 | 13 | 55.00 | 52.70 | -52.70 | 2777.29 |
| Classroom 460 | Winter | 2019 | 6th Grade | Music | 60.00 | 6 | 100.00 | 40.00 | -40.00 | 1600 |
| Classroom 461 | Winter | 2019 | 9th Grade | Social Studies | 51.00 | 49 | 80.00 | 29.00 | -29.00 | 841 |
| Classroom 462 | Winter | 2019 | 1st Grade | Social Studies | 38.00 | 25 | 60.00 | 22.00 | -22.00 | 484 |
| Classroom 463 | Winter | 2019 | 4th Grade | Physical Education | 71.00 | 28 | 89.00 | 18.00 | -18.00 | 324 |
| Classroom 464 | Winter | 2019 | 9th Grade | English | 60.33 | 72 | 89.00 | 28.67 | -28.67 | 821.7796889 |
| Classroom 465 | Winter | 2019 | 7th Grade | Music | 77.40 | 31 | 85.50 | 8.10 | -8.10 | 65.61 |
| Classroom 466 | Winter | 2019 | 9th Grade | English | 83.00 | 80 | 88.00 | 5.00 | -5.00 | 25 |
| Classroom 467 | Winter | 2019 | 5th Grade | Music | 25.00 | 113 | 75.00 | 50.00 | -50.00 | 2500 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 468 | Winter | 2019 | 7th Grade | Mathematics | 30.00 | 61 | 72.00 | 42.00 | -42.00 | 1764 |
| Classroom 469 | Winter | 2019 | 7th Grade | Music | 60.00 | 10 | 90.00 | 30.00 | -30.00 | 900 |
| Classroom 470 | Winter | 2019 | 12th Grade | English | 70.00 | 36 | 94.00 | 24.00 | -24.00 | 576 |
| Classroom 471 | Winter | 2019 | 11th Grade | Chemistry | 60.86 | 23 | 80.43 | 19.57 | -19.57 | 382.9849 |
| Classroom 472 | Winter | 2019 | 8th Grade | Mathematics | 21.80 | 30 | 82.50 | 60.70 | -60.70 | 3684.49 |
| Classroom 473 | Winter | 2019 | 7th Grade | English | 83.70 | 86 | 92.30 | 8.60 | -8.60 | 73.96 |
| Classroom 474 | Winter | 2019 | 10th Grade | English | 56.60 | 58 | 85.90 | 29.30 | -29.30 | 858.49 |
| Classroom 475 | Winter | 2019 | 11th Grade | Mathematics | 30.16 | 22 | 57.51 | 27.35 | -27.35 | 748.0225 |
| Classroom 476 | Winter | 2019 | 5th Grade | Mathematics | 27.00 | 24 | 42.00 | 15.00 | -15.00 | 225 |
| Classroom 477 | Winter | 2019 | 10th Grade | Social Studies | 27.00 | 64 | 78.00 | 51.00 | -51.00 | 2601 |
| Classroom 478 | Winter | 2019 | 9th Grade | Music | 20.00 | 53 | 85.00 | 65.00 | -65.00 | 4225 |
| Classroom 479 | Winter | 2019 | 10th Grade | Music | 54.00 | 17 | 82.00 | 28.00 | -28.00 | 784 |
| Classroom 480 | Winter | 2019 | Kindergarten | Language Arts | 45.00 | 22 | 56.00 | 11.00 | -11.00 | 121 |
| Classroom 481 | Winter | 2019 | 6th Grade | Mathematics | 7.00 | 23 | 65.00 | 58.00 | -58.00 | 3364 |
| Classroom 482 | Winter | 2019 | Kindergarten | Mathematics | 50.00 | 18 | 63.00 | 13.00 | -13.00 | 169 |
| Classroom 483 | Winter | 2019 | 2nd Grade | Mathematics | 68.00 | 21 | 86.00 | 18.00 | -18.00 | 324 |
| Classroom 484 | Winter | 2019 | Kindergarten | Mathematics | 56.00 | 15 | 76.00 | 20.00 | -20.00 | 400 |
| Classroom 485 | Winter | 2019 | 10th Grade | German | 20.00 | 15 | 60.00 | 40.00 | -40.00 | 1600 |
| Classroom 486 | Winter | 2019 | 9th Grade | Biology | 49.00 | 118 | 76.00 | 27.00 | -27.00 | 729 |
| Classroom 487 | Winter | 2019 | 4th Grade | Mathematics | 55.00 | 24 | 68.00 | 13.00 | -13.00 | 169 |
| Classroom 488 | Winter | 2019 | 5th Grade | Social Studies | 1.94 | 18 | 42.00 | 40.06 | -40.06 | 1604.8036 |
| Classroom 489 | Winter | 2019 | Kindergarten | Integrated Science | 68.00 | 26 | 89.67 | 21.67 | -21.67 | 469.4444444 |
| Classroom 490 | Winter | 2019 | Kindergarten | Mathematics | 46.90 | 23 | 54.76 | 7.86 | -7.86 | 61.7796 |
| Classroom 491 | Winter | 2019 | Kindergarten | Mathematics | 73.00 | 21 | 92.00 | 19.00 | -19.00 | 361 |
| Classroom 492 | Winter | 2019 | 1st Grade | Mathematics | 62.00 | 21 | 90.00 | 28.00 | -28.00 | 784 |
| Classroom 493 | Winter | 2019 | 5th Grade | Social Studies | 0.00 | 20 | 98.24 | 98.24 | -98.24 | 9651.0976 |
| Classroom 494 | Winter | 2019 | Kindergarten | Mathematics | 57.00 | 23 | 82.00 | 25.00 | -25.00 | 625 |
| Classroom 495 | Winter | 2018 | 6th Grade | Music | 66.00 | 77 | 86.00 | 20.00 | -20.00 | 400 |
| Classroom 496 | Winter | 2019 | 10th Grade | Social Studies | 60.00 | 56 | 100.00 | 40.00 | -40.00 | 1600 |
| Classroom 497 | Winter | 2019 | 5th Grade | Mathematics | 39.00 | 18 | 87.20 | 48.20 | -48.20 | 2323.24 |
| Classroom 498 | Winter | 2019 | 8th Grade | English | 23.00 | 19 | 65.30 | 42.30 | -42.30 | 1789.29 |
| Classroom 499 | Winter | 2019 | 6th Grade | Music | 50.00 | 23 | 90.00 | 40.00 | -40.00 | 1600 |
| Classroom 500 | Winter | 2019 | Kindergarten | Language Arts | 43.00 | 23 | 91.00 | 48.00 | -48.00 | 2304 |
| Classroom 501 | Winter | 2019 | 6th Grade | Language Arts | 13.00 | 29 | 80.00 | 67.00 | -67.00 | 4489 |
| Classroom 502 | Winter | 2019 | 3rd Grade | Mathematics | 57.50 | 24 | 83.30 | 25.80 | -25.80 | 665.64 |
| Classroom 503 | Winter | 2019 | Kindergarten | Mathematics | 56.00 | 24 | 92.00 | 36.00 | -36.00 | 1296 |
| Classroom 504 | Winter | 2019 | 7th Grade | Social Studies | 51.90 | 27 | 70.40 | 18.50 | -18.50 | 342.25 |
| Classroom 505 | Winter | 2019 | 3rd Grade | Integrated Science | 57.50 | 20 | 73.00 | 15.50 | -15.50 | 240.25 |
| Classroom 506 | Winter | 2019 | 10th Grade | Mathematics | 46.50 | 85 | 81.00 | 34.50 | -34.50 | 1190.25 |
| Classroom 507 | Winter | 2019 | 2nd Grade | Mathematics | 56.00 | 22 | 94.00 | 38.00 | -38.00 | 1444 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 508 | Winter | 2019 | 9th Grade | Music | 68.80 | 10 | 90.80 | 22.00 | -22.00 | 484 |
| Classroom 509 | Winter | 2019 | 5th Grade | Language Arts | 42.00 | 15 | 78.30 | 36.30 | -36.30 | 1317.69 |
| Classroom 510 | Winter | 2019 | Kindergarten | Mathematics | 38.00 | 23 | 43.00 | 5.00 | -5.00 | 25 |
| Classroom 511 | Winter | 2019 | 5th Grade | Integrated Science | 52.00 | 25 | 77.00 | 25.00 | -25.00 | 625 |
| Classroom 512 | Winter | 2019 | 1st Grade | Mathematics | 62.00 | 22 | 85.00 | 23.00 | -23.00 | 529 |
| Classroom 513 | Winter | 2019 | 7th Grade | English | 35.00 | 21 | 57.00 | 22.00 | -22.00 | 484 |
| Classroom 514 | Winter | 2019 | 10th Grade | Chemistry | 33.70 | 29 | 76.70 | 43.00 | -43.00 | 1849 |
| Classroom 515 | Winter | 2019 | 3rd Grade | Social Studies | 87.00 | 31 | 93.00 | 6.00 | -6.00 | 36 |
| Classroom 516 | Winter | 2019 | 12th Grade | Art | 25.00 | 25 | 62.00 | 37.00 | -37.00 | 1369 |
| Classroom 517 | Winter | 2019 | 5th Grade | Social Studies | 3.54 | 24 | 13.61 | 10.07 | -10.07 | 101.4049 |
| Classroom 518 | Winter | 2019 | 5th Grade | Social Studies | 47.00 | 19 | 71.00 | 24.00 | -24.00 | 576 |
| Classroom 519 | Winter | 2019 | 9th Grade | Health | 54.00 | 24 | 85.00 | 31.00 | -31.00 | 961 |
| Classroom 520 | Winter | 2019 | 3rd Grade | Language Arts | 55.00 | 22 | 72.00 | 17.00 | -17.00 | 289 |
| Classroom 521 | Winter | 2019 | 1st Grade | Mathematics | 56.00 | 23 | 78.00 | 22.00 | -22.00 | 484 |
| Classroom 522 | Winter | 2019 | 5th Grade | Integrated Science | 31.00 | 25 | 71.00 | 40.00 | -40.00 | 1600 |
| Classroom 523 | Winter | 2019 | 6th Grade | Language Arts | 32.70 | 22 | 64.60 | 31.90 | -31.90 | 1017.61 |
| Classroom 524 | Winter | 2019 | 1st Grade | Mathematics | 48.80 | 22 | 65.90 | 17.10 | -17.10 | 292.41 |
| Classroom 525 | Winter | 2019 | 4th Grade | Integrated Science | 47.00 | 23 | 80.00 | 33.00 | -33.00 | 1089 |
| Classroom 526 | Winter | 2019 | 4th Grade | Mathematics | 52.50 | 19 | 69.00 | 16.50 | -16.50 | 272.25 |
| Classroom 527 | Winter | 2019 | 4th Grade | Language Arts | 57.00 | 24 | 72.00 | 15.00 | -15.00 | 225 |
| Classroom 528 | Winter | 2019 | 3rd Grade | Social Studies | 52.60 | 26 | 73.50 | 20.90 | -20.90 | 436.81 |
| Classroom 529 | Winter | 2019 | 2nd Grade | Mathematics | 54.00 | 22 | 83.00 | 29.00 | -29.00 | 841 |
| Classroom 530 | Winter | 2019 | 3rd Grade | Mathematics | 55.00 | 19 | 67.00 | 12.00 | -12.00 | 144 |
| Classroom 531 | Winter | 2019 | 2nd Grade | Social Studies | 40.00 | 24 | 83.00 | 43.00 | -43.00 | 1849 |
| Classroom 532 | Winter | 2019 | 8th Grade | Social Studies | 9.00 | 67 | 71.00 | 62.00 | -62.00 | 3844 |
| Classroom 533 | Winter | 2019 | 9th Grade | Social Studies | 41.81 | 126 | 72.43 | 30.62 | -30.62 | 937.5844 |
| Classroom 534 | Winter | 2019 | Kindergarten | Mathematics | 66.00 | 23 | 83.00 | 17.00 | -17.00 | 289 |
| Classroom 535 | Winter | 2019 | Kindergarten | Mathematics | 93.42 | 20 | 93.75 | 0.33 | -0.33 | 0.1089 |
| Classroom 536 | Winter | 2019 | 1st Grade | Mathematics | 33.00 | 23 | 98.00 | 65.00 | -65.00 | 4225 |
| Classroom 537 | Winter | 2019 | 4th Grade | Mathematics | 28.00 | 22 | 71.00 | 43.00 | -43.00 | 1849 |
| Classroom 538 | Winter | 2019 | 7th Grade | Music | 46.20 | 30 | 88.20 | 42.00 | -42.00 | 1764 |
| Classroom 539 | Winter | 2019 | 9th Grade | English | 20.00 | 44 | 90.00 | 70.00 | -70.00 | 4900 |
| Classroom 540 | Winter | 2019 | 7th Grade | English | 74.00 | 43 | 93.00 | 19.00 | -19.00 | 361 |
| Classroom 541 | Winter | 2019 | 9th Grade | Social Studies | 34.00 | 109 | 42.00 | 8.00 | -8.00 | 64 |
| Classroom 542 | Fall | 2019 | 4th Grade | Integrated Science | 59.00 | 22 | 86.00 | 27.00 | -27.00 | 729 |
| Classroom 543 | Fall | 2019 | 5th Grade | Social Studies | 33.00 | 24 | 60.00 | 27.00 | -27.00 | 729 |
| Classroom 544 | Fall | 2019 | 4th Grade | Mathematics | 58.00 | 26 | 67.00 | 9.00 | -9.00 | 81 |
| Classroom 545 | Fall | 2019 | 1st Grade | Mathematics | 54.00 | 22 | 70.00 | 16.00 | -16.00 | 256 |
| Classroom 546 | Fall | 2019 | 5th Grade | Social Studies | 37.14 | 24 | 76.00 | 38.86 | -38.86 | 1510.0996 |
| Classroom 547 | Fall | 2019 | 10th Grade | English | 50.00 | 26 | 95.00 | 45.00 | -45.00 | 2025 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
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| Classroom 548 | Fall | 2019 | 8th Grade | Social Studies | 32.00 | 28 | 78.00 | 46.00 | -46.00 | 2116 |
| Classroom 549 | Fall | 2019 | 11th Grade | Social Studies | 15.90 | 62 | 88.92 | 73.03 | -73.03 | 5332.720875 |
| Classroom 550 | Fall | 2019 | 8th Grade | Spanish | 29.86 | 82 | 77.81 | 47.95 | -47.95 | 2299.2025 |
| Classroom 551 | Fall | 2019 | 10th Grade | Music | 25.00 | 23 | 75.00 | 50.00 | -50.00 | 2500 |
| Classroom 552 | Fall | 2019 | 10th Grade | Earth Science | 40.02 | 11 | 87.22 | 47.20 | -47.20 | 2227.84 |
| Classroom 553 | Fall | 2019 | 7th Grade | Social Studies | 32.00 | 26 | 83.00 | 51.00 | -51.00 | 2601 |
| Classroom 554 | Fall | 2019 | 11th Grade | Mathematics | 47.50 | 33 | 53.50 | 6.00 | -6.00 | 36 |
| Classroom 555 | Fall | 2019 | 10th Grade | French | 28.00 | 18 | 94.00 | 66.00 | -66.00 | 4356 |
| Classroom 556 | Fall | 2019 | 9th Grade | Mathematics | 96.00 | 28 | 88.00 | -8.00 | 8.00 | 64 |
| Classroom 557 | Fall | 2019 | 8th Grade | Physical Education | 83.00 | 45 | 95.00 | 12.00 | -12.00 | 144 |
| Classroom 558 | Fall | 2019 | 8th Grade | English | 72.14 | 26 | 75.60 | 3.46 | -3.46 | 11.9716 |
| Classroom 559 | Fall | 2019 | 10th Grade | Spanish | 43.00 | 27 | 81.00 | 38.00 | -38.00 | 1444 |
| Classroom 560 | Fall | 2019 | 8th Grade | English | 49.00 | 61 | 74.50 | 25.50 | -25.50 | 650.25 |
| Classroom 561 | Fall | 2019 | 9th Grade | English | 20.25 | 55 | 55.75 | 35.50 | -35.50 | 1260.25 |
| Classroom 562 | Fall | 2019 | 11th Grade | Economics | 70.30 | 20 | 93.00 | 22.70 | -22.70 | 515.29 |
| Classroom 563 | Fall | 2019 | 11th Grade | Mathematics | 41.00 | 46 | 80.00 | 39.00 | -39.00 | 1521 |
| Classroom 564 | Fall | 2019 | 6th Grade | Language Arts | 72.20 | 41 | 92.90 | 20.70 | -20.70 | 428.49 |
| Classroom 565 | Fall | 2019 | 1st Grade | Language Arts | 68.86 | 19 | 74.12 | 5.26 | -5.26 | 27.709696 |
| Classroom 566 | Fall | 2019 | 10th Grade | English | 56.25 | 52 | 76.25 | 20.00 | -20.00 | 400 |
| Classroom 567 | Fall | 2019 | 3rd Grade | Language Arts | 0.00 | 23 | 100.00 | 100.00 | -100.00 | 10000 |
| Classroom 568 | Fall | 2019 | 2nd Grade | Mathematics | 78.00 | 24 | 92.00 | 14.00 | -14.00 | 196 |
| Classroom 569 | Fall | 2019 | 1st Grade | Mathematics | 25.00 | 21 | 97.00 | 72.00 | -72.00 | 5184 |
| Classroom 570 | Fall | 2019 | 9th Grade | Social Studies | 26.00 | 64 | 53.00 | 27.00 | -27.00 | 729 |
| Classroom 571 | Fall | 2019 | 5th Grade | Integrated Science | 33.00 | 22 | 78.00 | 45.00 | -45.00 | 2025 |
| Classroom 572 | Fall | 2019 | 10th Grade | Mathematics | 4.61 | 34 | 72.46 | 67.85 | -67.85 | 4603.6225 |
| Classroom 573 | Fall | 2019 | 11th Grade | English | 50.00 | 73 | 100.00 | 50.00 | -50.00 | 2500 |
| Classroom 574 | Fall | 2019 | 5th Grade | Social Studies | 43.00 | 27 | 78.00 | 35.00 | -35.00 | 1225 |
| Classroom 575 | Fall | 2019 | 10th Grade | Music | 30.00 | 20 | 83.00 | 53.00 | -53.00 | 2809 |
| Classroom 576 | Fall | 2019 | 9th Grade | Art | 61.66 | 24 | 92.86 | 31.20 | -31.20 | 973.44 |
| Classroom 577 | Fall | 2019 | 10th Grade | English | 1.00 | 50 | 88.00 | 87.00 | -87.00 | 7569 |
| Classroom 578 | Fall | 2019 | Kindergarten | Social Studies | 64.00 | 15 | 88.00 | 24.00 | -24.00 | 576 |
| Classroom 579 | Fall | 2019 | 5th Grade | Language Arts | 31.00 | 21 | 62.00 | 31.00 | -31.00 | 961 |
| Classroom 580 | Fall | 2019 | 4th Grade | Mathematics | 53.00 | 27 | 73.00 | 20.00 | -20.00 | 400 |
| Classroom 581 | Fall | 2019 | 3rd Grade | Social Studies | 83.00 | 24 | 90.00 | 7.00 | -7.00 | 49 |
| Classroom 582 | Fall | 2019 | 5th Grade | Integrated Science | 51.00 | 24 | 97.00 | 46.00 | -46.00 | 2116 |
| Classroom 583 | Fall | 2019 | 4th Grade | Mathematics | 14.00 | 27 | 96.00 | 82.00 | -82.00 | 6724 |
| Classroom 584 | Fall | 2019 | Kindergarten | Mathematics | 66.00 | 23 | 90.00 | 24.00 | -24.00 | 576 |
| Classroom 585 | Fall | 2019 | 2nd Grade | Language Arts | 62.26 | 22 | 87.88 | 25.62 | -25.62 | 656.3844 |
| Classroom 586 | Fall | 2019 | 3rd Grade | Social Studies | 24.00 | 24 | 78.00 | 54.00 | -54.00 | 2916 |
| Classroom 587 | Fall | 2019 | 2nd Grade | Social Studies | 50.00 | 19 | 80.00 | 30.00 | -30.00 | 900 |


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| Classroom 588 | Fall | 2019 | 12th Grade | Art | 55.00 | 11 | 80.00 | 25.00 | -25.00 | 625 |
| Classroom 589 | Fall | 2019 | 5th Grade | Social Studies | 35.00 | 22 | 72.00 | 37.00 | -37.00 | 1369 |
| Classroom 590 | Fall | 2019 | 1st Grade | Language Arts | 39.00 | 22 | 78.00 | 39.00 | -39.00 | 1521 |
| Classroom 591 | Fall | 2019 | 2nd Grade | Mathematics | 33.64 | 22 | 54.53 | 20.89 | -20.89 | 436.3921 |
| Classroom 592 | Fall | 2019 | 4th Grade | Mathematics | 64.00 | 16 | 71.00 | 7.00 | -7.00 | 49 |
| Classroom 593 | Fall | 2019 | 4th Grade | Mathematics | 33.00 | 22 | 80.20 | 47.20 | -47.20 | 2227.84 |
| Classroom 594 | Fall | 2019 | 5th Grade | Mathematics | 17.00 | 22 | 87.00 | 70.00 | -70.00 | 4900 |
| Classroom 595 | Fall | 2019 | 1st Grade | Mathematics | 61.00 | 20 | 95.00 | 34.00 | -34.00 | 1156 |
| Classroom 596 | Fall | 2019 | 11th Grade | Spanish | 13.20 | 25 | 46.40 | 33.20 | -33.20 | 1102.24 |
| Classroom 597 | Fall | 2019 | 1st Grade | Health | 38.00 | 26 | 92.00 | 54.00 | -54.00 | 2916 |
| Classroom 598 | Fall | 2019 | Kindergarten | Social Studies | 39.00 | 22 | 72.00 | 33.00 | -33.00 | 1089 |
| Classroom 599 | Fall | 2019 | 3rd Grade | Social Studies | 15.00 | 24 | 97.00 | 82.00 | -82.00 | 6724 |
| Classroom 600 | Fall | 2019 | 2nd Grade | Mathematics | 4.00 | 21 | 95.00 | 91.00 | -91.00 | 8281 |
| Classroom 601 | Fall | 2019 | 3rd Grade | Mathematics | 25.00 | 23 | 85.00 | 60.00 | -60.00 | 3600 |
| Classroom 602 | Fall | 2019 | 1st Grade | Mathematics | 77.00 | 16 | 84.00 | 7.00 | -7.00 | 49 |
| Classroom 603 | Fall | 2019 | 2nd Grade | Mathematics | 22.00 | 23 | 48.00 | 26.00 | -26.00 | 676 |
| Classroom 604 | Fall | 2019 | 7th Grade | Physical Education | 81.00 | 30 | 85.00 | 4.00 | -4.00 | 16 |
| Classroom 605 | Fall | 2019 | 4th Grade | Mathematics | 50.00 | 28 | 82.00 | 32.00 | -32.00 | 1024 |
| Classroom 606 | Fall | 2019 | 3rd Grade | Language Arts | 96.00 | 24 | 96.00 | 0.00 | 0.00 | 0 |
| Classroom 607 | Fall | 2019 | 4th Grade | Social Studies | 22.00 | 21 | 85.80 | 63.80 | -63.80 | 4070.44 |
| Classroom 608 | Fall | 2019 | 4th Grade | Mathematics | 54.00 | 21 | 83.00 | 29.00 | -29.00 | 841 |
| Classroom 609 | Fall | 2019 | 1st Grade | Language Arts | 80.00 | 21 | 95.00 | 15.00 | -15.00 | 225 |
| Classroom 610 | Fall | 2019 | 1st Grade | Language Arts | 46.00 | 24 | 84.00 | 38.00 | -38.00 | 1444 |
| Classroom 611 | Fall | 2019 | 3rd Grade | Mathematics | 8.70 | 23 | 64.55 | 55.85 | -55.85 | 3119.2225 |
| Classroom 612 | Fall | 2019 | 1st Grade | Mathematics | 51.00 | 22 | 86.00 | 35.00 | -35.00 | 1225 |
| Classroom 613 | Fall | 2019 | 1st Grade | Mathematics | 59.50 | 21 | 90.60 | 31.10 | -31.10 | 967.21 |
| Classroom 614 | Fall | 2019 | 3rd Grade | Social Studies | 37.50 | 28 | 80.00 | 42.50 | -42.50 | 1806.25 |
| Classroom 615 | Fall | 2019 | Kindergarten | Integrated Science | 29.52 | 21 | 87.14 | 57.62 | -57.62 | 3319.949161 |
| Classroom 616 | Fall | 2019 | 4th Grade | Mathematics | 52.00 | 19 | 70.00 | 18.00 | -18.00 | 324 |
| Classroom 617 | Fall | 2019 | 1st Grade | Mathematics | 45.00 | 39 | 91.00 | 46.00 | -46.00 | 2116 |
| Classroom 618 | Fall | 2019 | 1st Grade | Language Arts | 60.00 | 26 | 88.00 | 28.00 | -28.00 | 784 |
| Classroom 619 | Fall | 2019 | 4th Grade | Mathematics | 12.00 | 19 | 78.00 | 66.00 | -66.00 | 4356 |
| Classroom 620 | Fall | 2019 | 4th Grade | Mathematics | 51.70 | 23 | 63.40 | 11.70 | -11.70 | 136.89 |
| Classroom 621 | Fall | 2019 | 1st Grade | Language Arts | 62.00 | 3 | 80.00 | 18.00 | -18.00 | 324 |
| Classroom 622 | Fall | 2019 | Kindergarten | Mathematics | 61.90 | 23 | 89.00 | 27.10 | -27.10 | 734.41 |
| Classroom 623 | Fall | 2019 | 2nd Grade | Mathematics | 60.38 | 18 | 80.60 | 20.22 | -20.22 | 408.8484 |
| Classroom 624 | Fall | 2019 | 4th Grade | Mathematics | 13.00 | 24 | 70.37 | 57.37 | -57.37 | 3291.3169 |
| Classroom 625 | Fall | 2019 | 4th Grade | Integrated Science | 32.00 | 25 | 67.00 | 35.00 | -35.00 | 1225 |
| Classroom 626 | Fall | 2019 | 2nd Grade | Integrated Science | 46.00 | 23 | 71.80 | 25.80 | -25.80 | 665.64 |
| Classroom 627 | Fall | 2019 | Kindergarten | Mathematics | 77.00 | 17 | 84.00 | 7.00 | -7.00 | 49 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 628 | Fall | 2019 | 5th Grade | Social Studies | 14.00 | 25 | 65.00 | 51.00 | -51.00 | 2601 |
| Classroom 629 | Fall | 2019 | Kindergarten | Mathematics | 84.30 | 22 | 96.70 | 12.40 | -12.40 | 153.76 |
| Classroom 630 | Fall | 2019 | Kindergarten | Language Arts | 3.70 | 24 | 38.00 | 34.30 | -34.30 | 1176.49 |
| Classroom 631 | Fall | 2019 | 4th Grade | Mathematics | 13.00 | 13 | 56.00 | 43.00 | -43.00 | 1849 |
| Classroom 632 | Fall | 2019 | 1st Grade | Mathematics | 71.00 | 21 | 76.00 | 5.00 | -5.00 | 25 |
| Classroom 633 | Fall | 2019 | 3rd Grade | Mathematics | 14.00 | 10 | 82.00 | 68.00 | -68.00 | 4624 |
| Classroom 634 | Fall | 2019 | 3rd Grade | Integrated Science | 50.00 | 23 | 89.00 | 39.00 | -39.00 | 1521 |
| Classroom 635 | Fall | 2019 | 1st Grade | Mathematics | 42.00 | 14 | 72.00 | 30.00 | -30.00 | 900 |
| Classroom 636 | Fall | 2019 | 1st Grade | Integrated Science | 19.00 | 24 | 81.00 | 62.00 | -62.00 | 3844 |
| Classroom 637 | Fall | 2019 | 1st Grade | Integrated Science | 24.00 | 28 | 85.00 | 61.00 | -61.00 | 3721 |
| Classroom 638 | Fall | 2019 | 3rd Grade | Social Studies | 64.00 | 24 | 79.00 | 15.00 | -15.00 | 225 |
| Classroom 639 | Fall | 2019 | 3rd Grade | Social Studies | 0.00 | 20 | 90.00 | 90.00 | -90.00 | 8100 |
| Classroom 640 | Fall | 2019 | 6th Grade | Mathematics | 70.83 | 21 | 85.19 | 14.36 | -14.36 | 206.2096 |
| Classroom 641 | Fall | 2019 | 3rd Grade | Integrated Science | 42.00 | 27 | 83.00 | 41.00 | -41.00 | 1681 |
| Classroom 642 | Fall | 2019 | 3rd Grade | Mathematics | 44.00 | 20 | 72.00 | 28.00 | -28.00 | 784 |
| Classroom 643 | Fall | 2019 | 1st Grade | Social Studies | 67.06 | 17 | 68.24 | 1.18 | -1.18 | 1.3924 |
| Classroom 644 | Fall | 2019 | 3rd Grade | Language Arts | 30.00 | 13 | 65.00 | 35.00 | -35.00 | 1225 |
| Classroom 645 | Fall | 2019 | 5th Grade | Language Arts | 14.00 | 19 | 27.00 | 13.00 | -13.00 | 169 |
| Classroom 646 | Fall | 2019 | 7th Grade | Music | 76.60 | 36 | 89.24 | 12.64 | -12.64 | 159.7696 |
| Classroom 647 | Fall | 2019 | 9th Grade | Social Studies | 50.00 | 18 | 86.00 | 36.00 | -36.00 | 1296 |


| Number of Tests $=\mathbf{N}$ 220 | Number of P-12 Students: 6667 | Average \% Improvement: 34.45 | "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  | -7579.22 | 358059.11 |
|  |  |  | L =Top Value ( $\mathrm{\sum d} / \mathrm{N}$ ) | -34.45 |
|  |  |  | $\mathrm{M}=$ Middle value | 96947.28 |
|  |  | $\sum d$ | O =Bottom Value | 48180.00 |
|  |  | $N$ | $\mathrm{P}=$ Square root of $\mathrm{M} / \mathrm{O}$ | 1.42 |
|  |  |  | $T=(L / P)$ | $-24.29$ |
|  |  |  | $\propto=0.05$ | Critical T = 1.645 |
|  |  | $N$ |  | Significant |
|  |  | $(N-1)$ | T/Square Root of $\mathrm{N}=$ Effect | -1.637 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 428 | Winter | 2019 | Kindergarten | Mathematics | 77.60 | 25 | 87.20 | 9.60 | -9.60 | 92.16 |
| Classroom 440 | Winter | 2019 | Kindergarten | Integrated Science | 60.40 | 20 | 98.40 | 38.00 | -38.00 | 1444 |
| Classroom 480 | Winter | 2019 | Kindergarten | Language Arts | 45.00 | 22 | 56.00 | 11.00 | -11.00 | 121 |
| Classroom 482 | Winter | 2019 | Kindergarten | Mathematics | 50.00 | 18 | 63.00 | 13.00 | -13.00 | 169 |
| Classroom 484 | Winter | 2019 | Kindergarten | Mathematics | 56.00 | 15 | 76.00 | 20.00 | -20.00 | 400 |
| Classroom 489 | Winter | 2019 | Kindergarten | Integrated Science | 68.00 | 26 | 89.67 | 21.67 | -21.67 | 469.4444444 |
| Classroom 490 | Winter | 2019 | Kindergarten | Mathematics | 46.90 | 23 | 54.76 | 7.86 | -7.86 | 61.7796 |
| Classroom 491 | Winter | 2019 | Kindergarten | Mathematics | 73.00 | 21 | 92.00 | 19.00 | -19.00 | 361 |
| Classroom 494 | Winter | 2019 | Kindergarten | Mathematics | 57.00 | 23 | 82.00 | 25.00 | -25.00 | 625 |
| Classroom 500 | Winter | 2019 | Kindergarten | Language Arts | 43.00 | 23 | 91.00 | 48.00 | -48.00 | 2304 |
| Classroom 503 | Winter | 2019 | Kindergarten | Mathematics | 56.00 | 24 | 92.00 | 36.00 | -36.00 | 1296 |
| Classroom 510 | Winter | 2019 | Kindergarten | Mathematics | 38.00 | 23 | 43.00 | 5.00 | -5.00 | 25 |
| Classroom 534 | Winter | 2019 | Kindergarten | Mathematics | 66.00 | 23 | 83.00 | 17.00 | -17.00 | 289 |
| Classroom 535 | Winter | 2019 | Kindergarten | Mathematics | 93.42 | 20 | 93.75 | 0.33 | -0.33 | 0.1089 |
| Classroom 578 | Fall | 2019 | Kindergarten | Social Studies | 64.00 | 15 | 88.00 | 24.00 | -24.00 | 576 |
| Classroom 584 | Fall | 2019 | Kindergarten | Mathematics | 66.00 | 23 | 90.00 | 24.00 | -24.00 | 576 |
| Classroom 598 | Fall | 2019 | Kindergarten | Social Studies | 39.00 | 22 | 72.00 | 33.00 | -33.00 | 1089 |
| Classroom 615 | Fall | 2019 | Kindergarten | Integrated Science | 29.52 | 21 | 87.14 | 57.62 | -57.62 | 3319.949161 |
| Classroom 622 | Fall | 2019 | Kindergarten | Mathematics | 61.90 | 23 | 89.00 | 27.10 | -27.10 | 734.41 |
| Classroom 627 | Fall | 2019 | Kindergarten | Mathematics | 77.00 | 17 | 84.00 | 7.00 | -7.00 | 49 |
| Classroom 629 | Fall | 2019 | Kindergarten | Mathematics | 84.30 | 22 | 96.70 | 12.40 | -12.40 | 153.76 |
| Classroom 630 | Fall | 2019 | Kindergarten | Language Arts | 3.70 | 24 | 38.00 | 34.30 | -34.30 | 1176.49 |



| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 432 | Winter | 2019 | 1st Grade | Integrated Science | 31.50 | 19 | 75.40 | 43.90 | -43.90 | 1927.21 |
| Classroom 442 | Winter | 2019 | 1st Grade | Integrated Science | 47.00 | 19 | 74.00 | 27.00 | -27.00 | 729 |
| Classroom 443 | Winter | 2019 | 1st Grade | Integrated Science | 23.00 | 19 | 82.00 | 59.00 | -59.00 | 3481 |
| Classroom 462 | Winter | 2019 | 1st Grade | Social Studies | 38.00 | 25 | 60.00 | 22.00 | -22.00 | 484 |
| Classroom 492 | Winter | 2019 | 1st Grade | Mathematics | 62.00 | 21 | 90.00 | 28.00 | -28.00 | 784 |
| Classroom 512 | Winter | 2019 | 1st Grade | Mathematics | 62.00 | 22 | 85.00 | 23.00 | -23.00 | 529 |
| Classroom 521 | Winter | 2019 | 1st Grade | Mathematics | 56.00 | 23 | 78.00 | 22.00 | -22.00 | 484 |
| Classroom 524 | Winter | 2019 | 1st Grade | Mathematics | 48.80 | 22 | 65.90 | 17.10 | -17.10 | 292.41 |
| Classroom 536 | Winter | 2019 | 1st Grade | Mathematics | 33.00 | 23 | 98.00 | 65.00 | -65.00 | 4225 |
| Classroom 545 | Fall | 2019 | 1st Grade | Mathematics | 54.00 | 22 | 70.00 | 16.00 | -16.00 | 256 |
| Classroom 565 | Fall | 2019 | 1st Grade | Language Arts | 68.86 | 19 | 74.12 | 5.26 | -5.26 | 27.709696 |
| Classroom 569 | Fall | 2019 | 1st Grade | Mathematics | 25.00 | 21 | 97.00 | 72.00 | -72.00 | 5184 |
| Classroom 590 | Fall | 2019 | 1st Grade | Language Arts | 39.00 | 22 | 78.00 | 39.00 | -39.00 | 1521 |
| Classroom 595 | Fall | 2019 | 1st Grade | Mathematics | 61.00 | 20 | 95.00 | 34.00 | -34.00 | 1156 |
| Classroom 597 | Fall | 2019 | 1st Grade | Health | 38.00 | 26 | 92.00 | 54.00 | -54.00 | 2916 |
| Classroom 602 | Fall | 2019 | 1st Grade | Mathematics | 77.00 | 16 | 84.00 | 7.00 | -7.00 | 49 |
| Classroom 609 | Fall | 2019 | 1st Grade | Language Arts | 80.00 | 21 | 95.00 | 15.00 | -15.00 | 225 |
| Classroom 610 | Fall | 2019 | 1st Grade | Language Arts | 46.00 | 24 | 84.00 | 38.00 | -38.00 | 1444 |
| Classroom 612 | Fall | 2019 | 1st Grade | Mathematics | 51.00 | 22 | 86.00 | 35.00 | -35.00 | 1225 |
| Classroom 613 | Fall | 2019 | 1st Grade | Mathematics | 59.50 | 21 | 90.60 | 31.10 | -31.10 | 967.21 |
| Classroom 617 | Fall | 2019 | 1st Grade | Mathematics | 45.00 | 39 | 91.00 | 46.00 | -46.00 | 2116 |
| Classroom 618 | Fall | 2019 | 1st Grade | Language Arts | 60.00 | 26 | 88.00 | 28.00 | -28.00 | 784 |
| Classroom 621 | Fall | 2019 | 1st Grade | Language Arts | 62.00 | 3 | 80.00 | 18.00 | -18.00 | 324 |
| Classroom 632 | Fall | 2019 | 1st Grade | Mathematics | 71.00 | 21 | 76.00 | 5.00 | -5.00 | 25 |
| Classroom 635 | Fall | 2019 | 1st Grade | Mathematics | 42.00 | 14 | 72.00 | 30.00 | -30.00 | 900 |
| Classroom 636 | Fall | 2019 | 1st Grade | Integrated Science | 19.00 | 24 | 81.00 | 62.00 | -62.00 | 3844 |
| Classroom 637 | Fall | 2019 | 1st Grade | Integrated Science | 24.00 | 28 | 85.00 | 61.00 | -61.00 | 3721 |
| Classroom 643 | Fall | 2019 | 1st Grade | Social Studies | 67.06 | 17 | 68.24 | 1.18 | -1.18 | 1.3924 |

Number of Tests $=\mathbf{N}$

Number of P-12 Students: Average \% Improvement:
595

| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :--- | ---: |
| $\mathbf{- 9 0 4 . 5 4}$ | $\mathbf{3 9 6 2 1 . 9 3}$ |
| L =Top Value $\left(\sum \mathrm{d} / \mathrm{N}\right)$ | -32.31 |
| M = Middle value | 10400.51 |
| O = Bottom Value | 756.00 |
| P =Square root of $\mathrm{M} / \mathrm{O}$ | 3.71 |



| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 450 | Winter | 2019 | 2nd Grade | Mathematics | 14.90 | 21 | 59.40 | 44.50 | -44.50 | 1980.25 |
| Classroom 451 | Winter | 2019 | 2nd Grade | Integrated Science | 62.60 | 22 | 92.40 | 29.80 | -29.80 | 888.04 |
| Classroom 483 | Winter | 2019 | 2nd Grade | Mathematics | 68.00 | 21 | 86.00 | 18.00 | -18.00 | 324 |
| Classroom 507 | Winter | 2019 | 2nd Grade | Mathematics | 56.00 | 22 | 94.00 | 38.00 | -38.00 | 1444 |
| Classroom 529 | Winter | 2019 | 2nd Grade | Mathematics | 54.00 | 22 | 83.00 | 29.00 | -29.00 | 841 |
| Classroom 531 | Winter | 2019 | 2nd Grade | Social Studies | 40.00 | 24 | 83.00 | 43.00 | -43.00 | 1849 |
| Classroom 568 | Fall | 2019 | 2nd Grade | Mathematics | 78.00 | 24 | 92.00 | 14.00 | -14.00 | 196 |
| Classroom 585 | Fall | 2019 | 2nd Grade | Language Arts | 62.26 | 22 | 87.88 | 25.62 | -25.62 | 656.3844 |
| Classroom 587 | Fall | 2019 | 2nd Grade | Social Studies | 50.00 | 19 | 80.00 | 30.00 | -30.00 | 900 |
| Classroom 591 | Fall | 2019 | 2nd Grade | Mathematics | 33.64 | 22 | 54.53 | 20.89 | -20.89 | 436.3921 |
| Classroom 600 | Fall | 2019 | 2nd Grade | Mathematics | 4.00 | 21 | 95.00 | 91.00 | -91.00 | 8281 |
| Classroom 603 | Fall | 2019 | 2nd Grade | Mathematics | 22.00 | 23 | 48.00 | 26.00 | -26.00 | 676 |
| Classroom 623 | Fall | 2019 | 2nd Grade | Mathematics | 60.38 | 18 | 80.60 | 20.22 | -20.22 | 408.8484 |
| Classroom 626 | Fall | 2019 | 2nd Grade | Integrated Science | 46.00 | 23 | 71.80 | 25.80 | -25.80 | 665.64 |

Number of Tests $=\mathbf{N}$

Number of P-12 Students:
302

Average \% Improvement:
32.56

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

| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :--- | ---: |
| $\mathbf{- 4 5 5 . 8 3}$ | $\mathbf{1 9 5 4 6 . 5 5}$ |
| $\mathrm{L}=$ Top Value $(\mathrm{D} \mathrm{d} / \mathrm{N})$ | -32.56 |
| $\mathrm{M}=$ Middle value | 4705.06 |
| $\mathrm{O}=$ Bottom Value | 182.00 |
| $\mathrm{P}=$ Square root of $\mathrm{M} / \mathrm{O}$ | 5.08 |
| $\mathbf{T}=(\mathrm{L} / \mathrm{P})$ | $\mathbf{- 6 . 4 0}$ |
| $\propto=0.05$ | Critical T = 1.645 |
|  | Significant |
| T/Square Root of $N=$ <br> Effect | $\mathbf{- 1 . 7 1 1}$ |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 502 | Winter | 2019 | 3rd Grade | Mathematics | 57.50 | 24 | 83.30 | 25.80 | -25.80 | 665.64 |
| Classroom 505 | Winter | 2019 | 3rd Grade | Integrated Science | 57.50 | 20 | 73.00 | 15.50 | -15.50 | 240.25 |
| Classroom 515 | Winter | 2019 | 3rd Grade | Social Studies | 87.00 | 31 | 93.00 | 6.00 | -6.00 | 36 |
| Classroom 520 | Winter | 2019 | 3rd Grade | Language Arts | 55.00 | 22 | 72.00 | 17.00 | -17.00 | 289 |
| Classroom 528 | Winter | 2019 | 3rd Grade | Social Studies | 52.60 | 26 | 73.50 | 20.90 | -20.90 | 436.81 |
| Classroom 530 | Winter | 2019 | 3rd Grade | Mathematics | 55.00 | 19 | 67.00 | 12.00 | -12.00 | 144 |
| Classroom 567 | Fall | 2019 | 3rd Grade | Language Arts | 0.00 | 23 | 100.00 | 100.00 | -100.00 | 10000 |
| Classroom 581 | Fall | 2019 | 3rd Grade | Social Studies | 83.00 | 24 | 90.00 | 7.00 | -7.00 | 49 |
| Classroom 586 | Fall | 2019 | 3rd Grade | Social Studies | 24.00 | 24 | 78.00 | 54.00 | -54.00 | 2916 |
| Classroom 599 | Fall | 2019 | 3rd Grade | Social Studies | 15.00 | 24 | 97.00 | 82.00 | -82.00 | 6724 |
| Classroom 601 | Fall | 2019 | 3rd Grade | Mathematics | 25.00 | 23 | 85.00 | 60.00 | -60.00 | 3600 |
| Classroom 606 | Fall | 2019 | 3rd Grade | Language Arts | 96.00 | 24 | 96.00 | 0.00 | 0.00 | 0 |
| Classroom 611 | Fall | 2019 | 3rd Grade | Mathematics | 8.70 | 23 | 64.55 | 55.85 | -55.85 | 3119.2225 |
| Classroom 614 | Fall | 2019 | 3rd Grade | Social Studies | 37.50 | 28 | 80.00 | 42.50 | -42.50 | 1806.25 |
| Classroom 633 | Fall | 2019 | 3rd Grade | Mathematics | 14.00 | 10 | 82.00 | 68.00 | -68.00 | 4624 |
| Classroom 634 | Fall | 2019 | 3rd Grade | Integrated Science | 50.00 | 23 | 89.00 | 39.00 | -39.00 | 1521 |
| Classroom 638 | Fall | 2019 | 3rd Grade | Social Studies | 64.00 | 24 | 79.00 | 15.00 | -15.00 | 225 |
| Classroom 639 | Fall | 2019 | 3rd Grade | Social Studies | 0.00 | 20 | 90.00 | 90.00 | -90.00 | 8100 |
| Classroom 641 | Fall | 2019 | 3rd Grade | Integrated Science | 42.00 | 27 | 83.00 | 41.00 | -41.00 | 1681 |
| Classroom 642 | Fall | 2019 | 3rd Grade | Mathematics | 44.00 | 20 | 72.00 | 28.00 | -28.00 | 784 |
| Classroom 644 | Fall | 2019 | 3rd Grade | Language Arts | 30.00 | 13 | 65.00 | 35.00 | -35.00 | 1225 |


| Number of Tests $=\mathbf{N}$ 21 | Number of P-12 Students: 468 | Average \% Improveme $38.79$ |
| :---: | :---: | :---: |
|  | $t=\frac{\frac{\sum d}{N}}{\sqrt{\frac{\sum d^{2}-\frac{\left(\sum d\right)^{2}}{N}}{N(N-1)}}}$ |  |


| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :--- | ---: |
| $\mathbf{- 8 1 4 . 5 5}$ | $\mathbf{4 8 1 8 6 . 1 7}$ |
| L =Top Value ( d d/N) | -38.79 |
| $\mathrm{M}=$ Middle value | 16591.33 |
| $\mathrm{O}=$ Bottom Value | 420.00 |
| $\mathrm{P}=$ Square root of M/O | 6.29 |
| $\mathbf{T}=\mathbf{~ ( L / P ) ~}$ | $\mathbf{- 6 . 1 7}$ |
| $\propto=0.05$ | Critical T = 1.645 |
|  | Significant |
| T/Square Root of <br> Effect | $\mathbf{- 1 . 3 4 7}$ |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 439 | Winter | 2019 | 4th Grade | Integrated Science | 44.00 | 19 | 82.35 | 38.35 | -38.35 | 1470.7225 |
| Classroom 457 | Winter | 2019 | 4th Grade | Mathematics | 65.00 | 22 | 82.00 | 17.00 | -17.00 | 289 |
| Classroom 463 | Winter | 2019 | 4th Grade | Physical Education | 71.00 | 28 | 89.00 | 18.00 | -18.00 | 324 |
| Classroom 487 | Winter | 2019 | 4th Grade | Mathematics | 55.00 | 24 | 68.00 | 13.00 | -13.00 | 169 |
| Classroom 525 | Winter | 2019 | 4th Grade | Integrated Science | 47.00 | 23 | 80.00 | 33.00 | -33.00 | 1089 |
| Classroom 526 | Winter | 2019 | 4th Grade | Mathematics | 52.50 | 19 | 69.00 | 16.50 | -16.50 | 272.25 |
| Classroom 527 | Winter | 2019 | 4th Grade | Language Arts | 57.00 | 24 | 72.00 | 15.00 | -15.00 | 225 |
| Classroom 537 | Winter | 2019 | 4th Grade | Mathematics | 28.00 | 22 | 71.00 | 43.00 | -43.00 | 1849 |
| Classroom 542 | Fall | 2019 | 4th Grade | Integrated Science | 59.00 | 22 | 86.00 | 27.00 | -27.00 | 729 |
| Classroom 544 | Fall | 2019 | 4th Grade | Mathematics | 58.00 | 26 | 67.00 | 9.00 | -9.00 | 81 |
| Classroom 580 | Fall | 2019 | 4th Grade | Mathematics | 53.00 | 27 | 73.00 | 20.00 | -20.00 | 400 |
| Classroom 583 | Fall | 2019 | 4th Grade | Mathematics | 14.00 | 27 | 96.00 | 82.00 | -82.00 | 6724 |
| Classroom 592 | Fall | 2019 | 4th Grade | Mathematics | 64.00 | 16 | 71.00 | 7.00 | -7.00 | 49 |
| Classroom 593 | Fall | 2019 | 4th Grade | Mathematics | 33.00 | 22 | 80.20 | 47.20 | -47.20 | 2227.84 |
| Classroom 605 | Fall | 2019 | 4th Grade | Mathematics | 50.00 | 28 | 82.00 | 32.00 | -32.00 | 1024 |
| Classroom 607 | Fall | 2019 | 4th Grade | Social Studies | 22.00 | 21 | 85.80 | 63.80 | -63.80 | 4070.44 |
| Classroom 608 | Fall | 2019 | 4th Grade | Mathematics | 54.00 | 21 | 83.00 | 29.00 | -29.00 | 841 |
| Classroom 616 | Fall | 2019 | 4th Grade | Mathematics | 52.00 | 19 | 70.00 | 18.00 | -18.00 | 324 |
| Classroom 619 | Fall | 2019 | 4th Grade | Mathematics | 12.00 | 19 | 78.00 | 66.00 | -66.00 | 4356 |
| Classroom 620 | Fall | 2019 | 4th Grade | Mathematics | 51.70 | 23 | 63.40 | 11.70 | -11.70 | 136.89 |
| Classroom 624 | Fall | 2019 | 4th Grade | Mathematics | 13.00 | 24 | 70.37 | 57.37 | -57.37 | 3291.3169 |
| Classroom 625 | Fall | 2019 | 4th Grade | Integrated Science | 32.00 | 25 | 67.00 | 35.00 | -35.00 | 1225 |
| Classroom 631 | Fall | 2019 | 4th Grade | Mathematics | 13.00 | 13 | 56.00 | 43.00 | -43.00 | 1849 |


| Number of Tests $=\mathbf{N}$ | Number of P-12 Students: | Average \% Improvement: | "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: |
| 23 | 511 | 32.26 | -741.92 | 33016.46 |
|  |  |  | L =Top Value ( $\mathrm{Ld} / \mathrm{N}$ ) | -32.26 |
|  |  |  | M =Middle value | 9084.06 |
|  |  | $\sum d$ | O = Bottom Value | 506.00 |
|  |  | $N$ | $\mathrm{P}=$ Square root of $\mathrm{M} / \mathrm{O}$ | 4.24 |
|  | $t=$ |  | $T=(L / P)$ | -7.61 |
|  |  | $(\Sigma d)^{2}$ | $\propto=0.05$ | Critical T = 1.645 |
|  |  | $\qquad$ |  | Significant |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 <br> Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 429 | Winter | 2019 | 5th Grade | Integrated Science | 36.97 | 50 | 92.47 | 55.50 | -55.50 | 3080.25 |
| Classroom 433 | Winter | 2019 | 5th Grade | Mathematics | 71.00 | 25 | 90.00 | 19.00 | -19.00 | 361 |
| Classroom 435 | Winter | 2019 | 5th Grade | Integrated Science | 12.78 | 27 | 83.11 | 70.33 | -70.33 | 4946.3089 |
| Classroom 436 | Winter | 2019 | 5th Grade | Music | 32.00 | 32 | 99.00 | 67.00 | -67.00 | 4489 |
| Classroom 459 | Winter | 2019 | 5th Grade | Mathematics | 2.30 | 13 | 55.00 | 52.70 | -52.70 | 2777.29 |
| Classroom 467 | Winter | 2019 | 5th Grade | Music | 25.00 | 113 | 75.00 | 50.00 | -50.00 | 2500 |
| Classroom 476 | Winter | 2019 | 5th Grade | Mathematics | 27.00 | 24 | 42.00 | 15.00 | -15.00 | 225 |
| Classroom 488 | Winter | 2019 | 5th Grade | Social Studies | 1.94 | 18 | 42.00 | 40.06 | -40.06 | 1604.8036 |
| Classroom 493 | Winter | 2019 | 5th Grade | Social Studies | 0.00 | 20 | 98.24 | 98.24 | -98.24 | 9651.0976 |
| Classroom 497 | Winter | 2019 | 5th Grade | Mathematics | 39.00 | 18 | 87.20 | 48.20 | -48.20 | 2323.24 |
| Classroom 509 | Winter | 2019 | 5th Grade | Language Arts | 42.00 | 15 | 78.30 | 36.30 | -36.30 | 1317.69 |
| Classroom 511 | Winter | 2019 | 5th Grade | Integrated Science | 52.00 | 25 | 77.00 | 25.00 | -25.00 | 625 |
| Classroom 517 | Winter | 2019 | 5th Grade | Social Studies | 3.54 | 24 | 13.61 | 10.07 | -10.07 | 101.4049 |
| Classroom 518 | Winter | 2019 | 5th Grade | Social Studies | 47.00 | 19 | 71.00 | 24.00 | -24.00 | 576 |
| Classroom 522 | Winter | 2019 | 5th Grade | Integrated Science | 31.00 | 25 | 71.00 | 40.00 | -40.00 | 1600 |
| Classroom 543 | Fall | 2019 | 5th Grade | Social Studies | 33.00 | 24 | 60.00 | 27.00 | -27.00 | 729 |
| Classroom 546 | Fall | 2019 | 5th Grade | Social Studies | 37.14 | 24 | 76.00 | 38.86 | -38.86 | 1510.0996 |
| Classroom 571 | Fall | 2019 | 5th Grade | Integrated Science | 33.00 | 22 | 78.00 | 45.00 | -45.00 | 2025 |
| Classroom 574 | Fall | 2019 | 5th Grade | Social Studies | 43.00 | 27 | 78.00 | 35.00 | -35.00 | 1225 |
| Classroom 579 | Fall | 2019 | 5th Grade | Language Arts | 31.00 | 21 | 62.00 | 31.00 | -31.00 | 961 |
| Classroom 582 | Fall | 2019 | 5th Grade | Integrated Science | 51.00 | 24 | 97.00 | 46.00 | -46.00 | 2116 |
| Classroom 589 | Fall | 2019 | 5th Grade | Social Studies | 35.00 | 22 | 72.00 | 37.00 | -37.00 | 1369 |
| Classroom 594 | Fall | 2019 | 5th Grade | Mathematics | 17.00 | 22 | 87.00 | 70.00 | -70.00 | 4900 |
| Classroom 628 | Fall | 2019 | 5th Grade | Social Studies | 14.00 | 25 | 65.00 | 51.00 | -51.00 | 2601 |
| Classroom 645 | Fall | 2019 | 5th Grade | Language Arts | 14.00 | 19 | 27.00 | 13.00 | -13.00 | 169 |

Number of Tests $=$

| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :--- | ---: |
| -1045.26 | $\mathbf{5 3 7 8 3 . 1 8}$ |
| L =Top Value ( $\left.\sum \mathrm{d} / \mathrm{N}\right)$ | -41.81 |
| $\mathrm{M}=$ Middle value | 10080.45 |
| $\mathrm{O}=$ Bottom Value | 600.00 |
| $\mathrm{P}=$ Square root of $\mathrm{M} / \mathrm{O}$ | 4.10 |
| $\mathbf{T}=\mathbf{~ ( L / P ) ~}$ | $\mathbf{- 1 0 . 2 0}$ |
| $\propto=0.05$ | Critical $\mathrm{T}=\mathbf{1 . 6 4 5}$ |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 <br> Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\sqrt{\frac{N}{N(N-1)}}$ |  |  |  |  |  |  |  |  |  | Significant |
|  |  |  |  |  |  |  |  |  | T/Square Root of $\mathrm{N}=$ Effect | -2.040 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 430 | Winter | 2019 | 6th Grade | Music | 5.00 | 23 | 6.00 | 1.00 | -1.00 | 1 |
| Classroom 431 | Winter | 2019 | 6th Grade | Mathematics | 18.60 | 14 | 91.40 | 72.80 | -72.80 | 5299.84 |
| Classroom 437 | Winter | 2019 | 7th Grade | English | 48.00 | 62 | 92.00 | 44.00 | -44.00 | 1936 |
| Classroom 438 | Winter | 2019 | 6th Grade | Social Studies | 22.00 | 129 | 94.00 | 72.00 | -72.00 | 5184 |
| Classroom 446 | Winter | 2019 | 8th Grade | Mathematics | 21.00 | 24 | 90.00 | 69.00 | -69.00 | 4761 |
| Classroom 449 | Winter | 2019 | 6th Grade | Social Studies | 46.00 | 34 | 78.00 | 32.00 | -32.00 | 1024 |
| Classroom 454 | Winter | 2019 | 6th Grade | Music | 68.00 | 37 | 88.00 | 20.00 | -20.00 | 400 |
| Classroom 460 | Winter | 2019 | 6th Grade | Music | 60.00 | 6 | 100.00 | 40.00 | -40.00 | 1600 |
| Classroom 465 | Winter | 2019 | 7th Grade | Music | 77.40 | 31 | 85.50 | 8.10 | -8.10 | 65.61 |
| Classroom 468 | Winter | 2019 | 7th Grade | Mathematics | 30.00 | 61 | 72.00 | 42.00 | -42.00 | 1764 |
| Classroom 469 | Winter | 2019 | 7th Grade | Music | 60.00 | 10 | 90.00 | 30.00 | -30.00 | 900 |
| Classroom 472 | Winter | 2019 | 8th Grade | Mathematics | 21.80 | 30 | 82.50 | 60.70 | -60.70 | 3684.49 |
| Classroom 473 | Winter | 2019 | 7th Grade | English | 83.70 | 86 | 92.30 | 8.60 | -8.60 | 73.96 |
| Classroom 481 | Winter | 2019 | 6th Grade | Mathematics | 7.00 | 23 | 65.00 | 58.00 | -58.00 | 3364 |
| Classroom 495 | Winter | 2018 | 6th Grade | Music | 66.00 | 77 | 86.00 | 20.00 | -20.00 | 400 |
| Classroom 498 | Winter | 2019 | 8th Grade | English | 23.00 | 19 | 65.30 | 42.30 | -42.30 | 1789.29 |
| Classroom 499 | Winter | 2019 | 6th Grade | Music | 50.00 | 23 | 90.00 | 40.00 | -40.00 | 1600 |
| Classroom 501 | Winter | 2019 | 6th Grade | Language Arts | 13.00 | 29 | 80.00 | 67.00 | -67.00 | 4489 |
| Classroom 504 | Winter | 2019 | 7th Grade | Social Studies | 51.90 | 27 | 70.40 | 18.50 | -18.50 | 342.25 |
| Classroom 513 | Winter | 2019 | 7th Grade | English | 35.00 | 21 | 57.00 | 22.00 | -22.00 | 484 |
| Classroom 523 | Winter | 2019 | 6th Grade | Language Arts | 32.70 | 22 | 64.60 | 31.90 | -31.90 | 1017.61 |
| Classroom 532 | Winter | 2019 | 8th Grade | Social Studies | 9.00 | 67 | 71.00 | 62.00 | -62.00 | 3844 |
| Classroom 538 | Winter | 2019 | 7th Grade | Music | 46.20 | 30 | 88.20 | 42.00 | -42.00 | 1764 |
| Classroom 540 | Winter | 2019 | 7th Grade | English | 74.00 | 43 | 93.00 | 19.00 | -19.00 | 361 |
| Classroom 548 | Fall | 2019 | 8th Grade | Social Studies | 32.00 | 28 | 78.00 | 46.00 | -46.00 | 2116 |
| Classroom 550 | Fall | 2019 | 8th Grade | Spanish | 29.86 | 82 | 77.81 | 47.95 | -47.95 | 2299.2025 |
| Classroom 553 | Fall | 2019 | 7th Grade | Social Studies | 32.00 | 26 | 83.00 | 51.00 | -51.00 | 2601 |
| Classroom 557 | Fall | 2019 | 8th Grade | Physical Education | 83.00 | 45 | 95.00 | 12.00 | -12.00 | 144 |
| Classroom 558 | Fall | 2019 | 8th Grade | English | 72.14 | 26 | 75.60 | 3.46 | -3.46 | 11.9716 |
| Classroom 560 | Fall | 2019 | 8th Grade | English | 49.00 | 61 | 74.50 | 25.50 | -25.50 | 650.25 |
| Classroom 564 | Fall | 2019 | 6th Grade | Language Arts | 72.20 | 41 | 92.90 | 20.70 | -20.70 | 428.49 |
| Classroom 604 | Fall | 2019 | 7th Grade | Physical Education | 81.00 | 30 | 85.00 | 4.00 | -4.00 | 16 |
| Classroom 640 | Fall | 2019 | 6th Grade | Mathematics | 70.83 | 21 | 85.19 | 14.36 | -14.36 | 206.2096 |
| Classroom 646 | Fall | 2019 | 7th Grade | Music | 76.60 | 36 | 89.24 | 12.64 | -12.64 | 159.7696 |



| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 434 | Winter | 2019 | 11th Grade | Mathematics | 2.00 | 28 | 75.00 | 73.00 | -73.00 | 5329 |
| Classroom 441 | Winter | 2019 | 10th Grade | Social Studies | 40.00 | 90 | 75.00 | 35.00 | -35.00 | 1225 |
| Classroom 444 | Winter | 2019 | 11th Grade | Social Studies | 5.28 | 116 | 12.54 | 7.26 | -7.26 | 52.7076 |
| Classroom 445 | Winter | 2019 | 12th Grade | Music | 49.53 | 43 | 92.56 | 43.03 | -43.03 | 1851.5809 |
| Classroom 447 | Winter | 2019 | 10th Grade | Social Studies | 3.57 | 40 | 85.00 | 81.43 | -81.43 | 6630.8449 |
| Classroom 448 | Winter | 2019 | 11th Grade | English | 49.50 | 20 | 67.30 | 17.80 | -17.80 | 316.84 |
| Classroom 452 | Winter | 2019 | 9th Grade | Earth Science | 40.00 | 11 | 72.00 | 32.00 | -32.00 | 1024 |
| Classroom 453 | Winter | 2019 | 9th Grade | Social Studies | 19.00 | 32 | 77.00 | 58.00 | -58.00 | 3364 |
| Classroom 455 | Winter | 2019 | 11th Grade | Economics | 55.00 | 21 | 88.00 | 33.00 | -33.00 | 1089 |
| Classroom 456 | Winter | 2019 | 10th Grade | Social Studies | 44.40 | 47 | 79.53 | 35.13 | -35.13 | 1234.1169 |
| Classroom 458 | Winter | 2019 | 10th Grade | Social Studies | 52.95 | 52 | 68.35 | 15.40 | -15.40 | 237.16 |
| Classroom 461 | Winter | 2019 | 9th Grade | Social Studies | 51.00 | 49 | 80.00 | 29.00 | -29.00 | 841 |
| Classroom 464 | Winter | 2019 | 9th Grade | English | 60.33 | 72 | 89.00 | 28.67 | -28.67 | 821.7796889 |
| Classroom 466 | Winter | 2019 | 9th Grade | English | 83.00 | 80 | 88.00 | 5.00 | -5.00 | 25 |
| Classroom 470 | Winter | 2019 | 12th Grade | English | 70.00 | 36 | 94.00 | 24.00 | -24.00 | 576 |
| Classroom 471 | Winter | 2019 | 11th Grade | Chemistry | 60.86 | 23 | 80.43 | 19.57 | -19.57 | 382.9849 |
| Classroom 474 | Winter | 2019 | 10th Grade | English | 56.60 | 58 | 85.90 | 29.30 | -29.30 | 858.49 |
| Classroom 475 | Winter | 2019 | 11th Grade | Mathematics | 30.16 | 22 | 57.51 | 27.35 | -27.35 | 748.0225 |
| Classroom 477 | Winter | 2019 | 10th Grade | Social Studies | 27.00 | 64 | 78.00 | 51.00 | -51.00 | 2601 |
| Classroom 478 | Winter | 2019 | 9th Grade | Music | 20.00 | 53 | 85.00 | 65.00 | -65.00 | 4225 |
| Classroom 479 | Winter | 2019 | 10th Grade | Music | 54.00 | 17 | 82.00 | 28.00 | -28.00 | 784 |
| Classroom 485 | Winter | 2019 | 10th Grade | German | 20.00 | 15 | 60.00 | 40.00 | -40.00 | 1600 |
| Classroom 486 | Winter | 2019 | 9th Grade | Biology | 49.00 | 118 | 76.00 | 27.00 | -27.00 | 729 |
| Classroom 496 | Winter | 2019 | 10th Grade | Social Studies | 60.00 | 56 | 100.00 | 40.00 | -40.00 | 1600 |
| Classroom 506 | Winter | 2019 | 10th Grade | Mathematics | 46.50 | 85 | 81.00 | 34.50 | -34.50 | 1190.25 |
| Classroom 508 | Winter | 2019 | 9th Grade | Music | 68.80 | 10 | 90.80 | 22.00 | -22.00 | 484 |
| Classroom 514 | Winter | 2019 | 10th Grade | Chemistry | 33.70 | 29 | 76.70 | 43.00 | -43.00 | 1849 |
| Classroom 516 | Winter | 2019 | 12th Grade | Art | 25.00 | 25 | 62.00 | 37.00 | -37.00 | 1369 |
| Classroom 519 | Winter | 2019 | 9th Grade | Health | 54.00 | 24 | 85.00 | 31.00 | -31.00 | 961 |
| Classroom 533 | Winter | 2019 | 9th Grade | Social Studies | 41.81 | 126 | 72.43 | 30.62 | -30.62 | 937.5844 |
| Classroom 539 | Winter | 2019 | 9th Grade | English | 20.00 | 44 | 90.00 | 70.00 | -70.00 | 4900 |
| Classroom 541 | Winter | 2019 | 9th Grade | Social Studies | 34.00 | 109 | 42.00 | 8.00 | -8.00 | 64 |
| Classroom 547 | Fall | 2019 | 10th Grade | English | 50.00 | 26 | 95.00 | 45.00 | -45.00 | 2025 |
| Classroom 549 | Fall | 2019 | 11th Grade | Social Studies | 15.90 | 62 | 88.92 | 73.03 | -73.03 | 5332.720875 |
| Classroom 551 | Fall | 2019 | 10th Grade | Music | 25.00 | 23 | 75.00 | 50.00 | -50.00 | 2500 |
| Classroom 552 | Fall | 2019 | 10th Grade | Earth Science | 40.02 | 11 | 87.22 | 47.20 | -47.20 | 2227.84 |
| Classroom 554 | Fall | 2019 | 11th Grade | Mathematics | 47.50 | 33 | 53.50 | 6.00 | -6.00 | 36 |
| Classroom 555 | Fall | 2019 | 10th Grade | French | 28.00 | 18 | 94.00 | 66.00 | -66.00 | 4356 |
| Classroom 556 | Fall | 2019 | 9th Grade | Mathematics | 96.00 | 28 | 88.00 | -8.00 | 8.00 | 64 |
| Classroom 559 | Fall | 2019 | 10th Grade | Spanish | 43.00 | 27 | 81.00 | 38.00 | -38.00 | 1444 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 <br> Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 561 | Fall | 2019 | 9th Grade | English | 20.25 | 55 | 55.75 | 35.50 | -35.50 | 1260.25 |
| Classroom 562 | Fall | 2019 | 11th Grade | Economics | 70.30 | 20 | 93.00 | 22.70 | -22.70 | 515.29 |
| Classroom 563 | Fall | 2019 | 11th Grade | Mathematics | 41.00 | 46 | 80.00 | 39.00 | -39.00 | 1521 |
| Classroom 566 | Fall | 2019 | 10th Grade | English | 56.25 | 52 | 76.25 | 20.00 | -20.00 | 400 |
| Classroom 570 | Fall | 2019 | 9th Grade | Social Studies | 26.00 | 64 | 53.00 | 27.00 | -27.00 | 729 |
| Classroom 572 | Fall | 2019 | 10th Grade | Mathematics | 4.61 | 34 | 72.46 | 67.85 | -67.85 | 4603.6225 |
| Classroom 573 | Fall | 2019 | 11th Grade | English | 50.00 | 73 | 100.00 | 50.00 | -50.00 | 2500 |
| Classroom 575 | Fall | 2019 | 10th Grade | Music | 30.00 | 20 | 83.00 | 53.00 | -53.00 | 2809 |
| Classroom 576 | Fall | 2019 | 9th Grade | Art | 61.66 | 24 | 92.86 | 31.20 | -31.20 | 973.44 |
| Classroom 577 | Fall | 2019 | 10th Grade | English | 1.00 | 50 | 88.00 | 87.00 | -87.00 | 7569 |
| Classroom 588 | Fall | 2019 | 12th Grade | Art | 55.00 | 11 | 80.00 | 25.00 | -25.00 | 625 |
| Classroom 596 | Fall | 2019 | 11th Grade | Spanish | 13.20 | 25 | 46.40 | 33.20 | -33.20 | 1102.24 |
| Classroom 647 | Fall | 2019 | 9th Grade | Social Studies | 50.00 | 18 | 86.00 | 36.00 | -36.00 | 1296 |


| Number of Tests $=\mathbf{N}$ | Number of P-12 Students: | Average \% Improvement: | "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: |
| 53 | 2327 | 37.09 | -1965.73 | 93790.77 |
|  |  |  | L =Top Value ( $\mathrm{Ld} / \mathrm{N}$ ) | -37.09 |
|  |  |  | M =Middle value | 20883.16 |
|  |  | $\sum d$ | O =Bottom Value | 2756.00 |
|  |  | $N$ | $\mathrm{P}=$ Square root of $\mathrm{M} / \mathrm{O}$ | 2.75 |
|  | L |  | $\mathrm{T}=(\mathrm{L} / \mathrm{P})$ | -13.47 |
|  |  | $-\left(\sum d\right)^{2}$ | $\propto=0.05$ | Critical T = 1.645 |
|  |  | $N$ |  | Significant |
|  |  | $(N-1)$ | T/Square Root of $\mathrm{N}=$ Effect | -1.851 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 430 | Winter | 2019 | 6th Grade | Music | 5.00 | 23 | 6.00 | 1.00 | -1.00 | 1 |
| Classroom 436 | Winter | 2019 | 5th Grade | Music | 32.00 | 32 | 99.00 | 67.00 | -67.00 | 4489 |
| Classroom 445 | Winter | 2019 | 12th Grade | Music | 49.53 | 43 | 92.56 | 43.03 | -43.03 | 1851.5809 |
| Classroom 454 | Winter | 2019 | 6th Grade | Music | 68.00 | 37 | 88.00 | 20.00 | -20.00 | 400 |
| Classroom 460 | Winter | 2019 | 6th Grade | Music | 60.00 | 6 | 100.00 | 40.00 | -40.00 | 1600 |
| Classroom 465 | Winter | 2019 | 7th Grade | Music | 77.40 | 31 | 85.50 | 8.10 | -8.10 | 65.61 |
| Classroom 467 | Winter | 2019 | 5th Grade | Music | 25.00 | 113 | 75.00 | 50.00 | -50.00 | 2500 |
| Classroom 469 | Winter | 2019 | 7th Grade | Music | 60.00 | 10 | 90.00 | 30.00 | -30.00 | 900 |
| Classroom 478 | Winter | 2019 | 9th Grade | Music | 20.00 | 53 | 85.00 | 65.00 | -65.00 | 4225 |
| Classroom 479 | Winter | 2019 | 10th Grade | Music | 54.00 | 17 | 82.00 | 28.00 | -28.00 | 784 |
| Classroom 495 | Winter | 2018 | 6th Grade | Music | 66.00 | 77 | 86.00 | 20.00 | -20.00 | 400 |
| Classroom 499 | Winter | 2019 | 6th Grade | Music | 50.00 | 23 | 90.00 | 40.00 | -40.00 | 1600 |
| Classroom 508 | Winter | 2019 | 9th Grade | Music | 68.80 | 10 | 90.80 | 22.00 | -22.00 | 484 |
| Classroom 516 | Winter | 2019 | 12th Grade | Art | 25.00 | 25 | 62.00 | 37.00 | -37.00 | 1369 |
| Classroom 538 | Winter | 2019 | 7th Grade | Music | 46.20 | 30 | 88.20 | 42.00 | -42.00 | 1764 |
| Classroom 551 | Fall | 2019 | 10th Grade | Music | 25.00 | 23 | 75.00 | 50.00 | -50.00 | 2500 |
| Classroom 575 | Fall | 2019 | 10th Grade | Music | 30.00 | 20 | 83.00 | 53.00 | -53.00 | 2809 |
| Classroom 576 | Fall | 2019 | 9th Grade | Art | 61.66 | 24 | 92.86 | 31.20 | -31.20 | 973.44 |
| Classroom 588 | Fall | 2019 | 12th Grade | Art | 55.00 | 11 | 80.00 | 25.00 | -25.00 | 625 |
| Classroom 646 | Fall | 2019 | 7th Grade | Music | 76.60 | 36 | 89.24 | 12.64 | -12.64 | 159.7696 |


| Number of Tests $=\mathbf{N}$ | Number of P-12 Students: | Average \% Improvement: | "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: |
| 20 | 642 | 34.25 | -684.97 | 29500.40 |
|  |  |  | L =Top Value ( $\mathrm{Ed} / \mathrm{N}$ ) | -34.25 |
|  |  |  | M =Middle value | 6041.21 |
|  |  | $\sum d$ | O = Bottom Value | 380.00 |
|  |  | $N$ | $\mathrm{P}=$ Square root of M/O | 3.99 |
|  |  |  | $T=(L / P)$ | -8.59 |
|  |  | $-\left(\sum d\right)^{2}$ | $\propto=0.05$ | Critical T = 1.645 |
|  | $1$ | $N$ |  | Significant |
|  |  | $V(N-1)$ | T/Square Root of $\mathrm{N}=$ Effect | -1.921 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | $\begin{array}{\|l} \text { Pre- } \\ \text { SCORE } \\ \text { (X) } \\ \hline \end{array}$ | Number of P-12 Students | Post-SCORE (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 437 | Winter | 2019 | 7th Grade | English | 48.00 | 62 | 92.00 | 44.00 | -44.00 | 1936 |
| Classroom 448 | Winter | 2019 | 11th Grade | English | 49.50 | 20 | 67.30 | 17.80 | -17.80 | 316.84 |
| Classroom 464 | Winter | 2019 | 9th Grade | English | 60.33 | 72 | 89.00 | 28.67 | -28.67 | 821.7796889 |
| Classroom 466 | Winter | 2019 | 9th Grade | English | 83.00 | 80 | 88.00 | 5.00 | -5.00 | 25 |
| Classroom 470 | Winter | 2019 | 12th Grade | English | 70.00 | 36 | 94.00 | 24.00 | -24.00 | 576 |
| Classroom 473 | Winter | 2019 | 7th Grade | English | 83.70 | 86 | 92.30 | 8.60 | -8.60 | 73.96 |
| Classroom 474 | Winter | 2019 | 10th Grade | English | 56.60 | 58 | 85.90 | 29.30 | -29.30 | 858.49 |
| Classroom 480 | Winter | 2019 | Kindergarten | Language Arts | 45.00 | 22 | 56.00 | 11.00 | -11.00 | 121 |
| Classroom 498 | Winter | 2019 | 8th Grade | English | 23.00 | 19 | 65.30 | 42.30 | -42.30 | 1789.29 |
| Classroom 500 | Winter | 2019 | Kindergarten | Language Arts | 43.00 | 23 | 91.00 | 48.00 | -48.00 | 2304 |
| Classroom 501 | Winter | 2019 | 6th Grade | Language Arts | 13.00 | 29 | 80.00 | 67.00 | -67.00 | 4489 |
| Classroom 509 | Winter | 2019 | 5th Grade | Language Arts | 42.00 | 15 | 78.30 | 36.30 | -36.30 | 1317.69 |
| Classroom 513 | Winter | 2019 | 7th Grade | English | 35.00 | 21 | 57.00 | 22.00 | -22.00 | 484 |
| Classroom 520 | Winter | 2019 | 3rd Grade | Language Arts | 55.00 | 22 | 72.00 | 17.00 | -17.00 | 289 |
| Classroom 523 | Winter | 2019 | 6th Grade | Language Arts | 32.70 | 22 | 64.60 | 31.90 | -31.90 | 1017.61 |
| Classroom 527 | Winter | 2019 | 4th Grade | Language Arts | 57.00 | 24 | 72.00 | 15.00 | -15.00 | 225 |
| Classroom 539 | Winter | 2019 | 9th Grade | English | 20.00 | 44 | 90.00 | 70.00 | -70.00 | 4900 |
| Classroom 540 | Winter | 2019 | 7th Grade | English | 74.00 | 43 | 93.00 | 19.00 | -19.00 | 361 |
| Classroom 547 | Fall | 2019 | 10th Grade | English | 50.00 | 26 | 95.00 | 45.00 | -45.00 | 2025 |
| Classroom 558 | Fall | 2019 | 8th Grade | English | 72.14 | 26 | 75.60 | 3.46 | -3.46 | 11.9716 |
| Classroom 560 | Fall | 2019 | 8th Grade | English | 49.00 | 61 | 74.50 | 25.50 | -25.50 | 650.25 |
| Classroom 561 | Fall | 2019 | 9th Grade | English | 20.25 | 55 | 55.75 | 35.50 | -35.50 | 1260.25 |
| Classroom 564 | Fall | 2019 | 6th Grade | Language Arts | 72.20 | 41 | 92.90 | 20.70 | -20.70 | 428.49 |
| Classroom 565 | Fall | 2019 | 1st Grade | Language Arts | 68.86 | 19 | 74.12 | 5.26 | -5.26 | 27.709696 |
| Classroom 566 | Fall | 2019 | 10th Grade | English | 56.25 | 52 | 76.25 | 20.00 | -20.00 | 400 |
| Classroom 567 | Fall | 2019 | 3rd Grade | Language Arts | 0.00 | 23 | 100.00 | 100.00 | -100.00 | 10000 |
| Classroom 573 | Fall | 2019 | 11th Grade | English | 50.00 | 73 | 100.00 | 50.00 | -50.00 | 2500 |
| Classroom 577 | Fall | 2019 | 10th Grade | English | 1.00 | 50 | 88.00 | 87.00 | -87.00 | 7569 |
| Classroom 579 | Fall | 2019 | 5th Grade | Language Arts | 31.00 | 21 | 62.00 | 31.00 | -31.00 | 961 |
| Classroom 585 | Fall | 2019 | 2nd Grade | Language Arts | 62.26 | 22 | 87.88 | 25.62 | -25.62 | 656.3844 |
| Classroom 590 | Fall | 2019 | 1st Grade | Language Arts | 39.00 | 22 | 78.00 | 39.00 | -39.00 | 1521 |
| Classroom 606 | Fall | 2019 | 3rd Grade | Language Arts | 96.00 | 24 | 96.00 | 0.00 | 0.00 | 0 |
| Classroom 609 | Fall | 2019 | 1st Grade | Language Arts | 80.00 | 21 | 95.00 | 15.00 | -15.00 | 225 |
| Classroom 610 | Fall | 2019 | 1st Grade | Language Arts | 46.00 | 24 | 84.00 | 38.00 | -38.00 | 1444 |
| Classroom 618 | Fall | 2019 | 1st Grade | Language Arts | 60.00 | 26 | 88.00 | 28.00 | -28.00 | 784 |
| Classroom 621 | Fall | 2019 | 1st Grade | Language Arts | 62.00 | 3 | 80.00 | 18.00 | -18.00 | 324 |
| Classroom 630 | Fall | 2019 | Kindergarten | Language Arts | 3.70 | 24 | 38.00 | 34.30 | -34.30 | 1176.49 |
| Classroom 644 | Fall | 2019 | 3rd Grade | Language Arts | 30.00 | 13 | 65.00 | 35.00 | -35.00 | 1225 |
| Classroom 645 | Fall | 2019 | 5th Grade | Language Arts | 14.00 | 19 | 27.00 | 13.00 | -13.00 | 169 |


| Classroom <br> Sample | Semester | Year | Grade-Level <br> Assessed | Content Area <br> Assessed | Pre- <br> SCORE <br> $(X)$ | Number <br> of P-12 <br> Students | Post-SCORE <br> $(Y)$ | "Y-X" <br> Change | "X-Y" or "ED" |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :---: | :---: |
| -1206.21 | 55264.21 |
| L =Top Value ( $\mathrm{Ld} / \mathrm{N}$ ) | -30.93 |
| M =Middle value | 17957.94 |
| O =Bottom Value | 1482.00 |
| $\mathrm{P}=$ Square root of M/O | 3.48 |
| $\mathrm{T}=(\mathrm{L} / \mathrm{P})$ | -8.88 |
| $\propto=0.05$ | Critical T = 1.645 |
|  | Significant |
| T/Square Root of $\mathrm{N}=$ Effect | -1.423 |


| Classroom Sample | Semester | Year | Grade－Level Assessed | Content Area Assessed | Pre－ SCORE （X） | Number of P－12 Students | $\begin{gathered} \text { Post-SCORE } \\ (\mathrm{Y}) \\ \hline \end{gathered}$ | ＂Y－X＂ <br> Change | ＂X－Y＂or＂ED＂ | ＂（X－Y）＾2＂or＂ED＾2＂ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 463 | Winter | 2019 | 4th Grade | Physical Education | 71.00 | 28 | 89.00 | 18.00 | －18．00 | 324 |
| Classroom 519 | Winter | 2019 | 9th Grade | Health | 54.00 | 24 | 85.00 | 31.00 | －31．00 | 961 |
| Classroom 557 | Fall | 2019 | 8th Grade | Physical Education | 83.00 | 45 | 95.00 | 12.00 | －12．00 | 144 |
| Classroom 597 | Fall | 2019 | 1st Grade | Health | 38.00 | 26 | 92.00 | 54.00 | －54．00 | 2916 |
| Classroom 604 | Fall | 2019 | 7th Grade | Physical Education | 81.00 | 30 | 85.00 | 4.00 | －4．00 | 16 |


| Number of Tests $=\mathbf{N}$ | Number of P－12 Students： | Average \％Improvement： | ＂X－Y＂or＂ED＂： | ＂（X－Y）＾2＂or＂ED＾2＂ |
| :---: | :---: | :---: | :---: | :---: |
| 5 | 153 | 23.80 | －119．00 | 4361.00 |
|  |  |  | L＝Top Value（ $\mathrm{Ld} / \mathrm{N}$ ） | －23．80 |
|  |  |  | $\mathrm{M}=$ Middle value | 1528.80 |
|  |  | $\sum d$ | O＝Bottom Value | 20.00 |
|  |  | $N$ | P＝Square root of $\mathrm{M} / \mathrm{O}$ | 8.74 |
|  | ーニー | $\underline{N}$ | $\mathrm{T}=(\mathrm{L} / \mathrm{P})$ | －2．72 |
|  |  | $-\left(\sum d\right)^{2}$ | $\propto=0.05$ | Critical T＝ 1.645 |
|  |  | $N$ |  | Significant |
|  |  | $(N-1)$ | T／Square Root of $\mathrm{N}=$ Effect | －1．217 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 428 | Winter | 2019 | Kindergarten | Mathematics | 77.60 | 25 | 87.20 | 9.60 | -9.60 | 92.16 |
| Classroom 431 | Winter | 2019 | 6th Grade | Mathematics | 18.60 | 14 | 91.40 | 72.80 | -72.80 | 5299.84 |
| Classroom 433 | Winter | 2019 | 5th Grade | Mathematics | 71.00 | 25 | 90.00 | 19.00 | -19.00 | 361 |
| Classroom 434 | Winter | 2019 | 11th Grade | Mathematics | 2.00 | 28 | 75.00 | 73.00 | -73.00 | 5329 |
| Classroom 446 | Winter | 2019 | 8th Grade | Mathematics | 21.00 | 24 | 90.00 | 69.00 | -69.00 | 4761 |
| Classroom 450 | Winter | 2019 | 2nd Grade | Mathematics | 14.90 | 21 | 59.40 | 44.50 | -44.50 | 1980.25 |
| Classroom 455 | Winter | 2019 | 11th Grade | Mathematics | 55.00 | 21 | 88.00 | 33.00 | -33.00 | 1089 |
| Classroom 457 | Winter | 2019 | 4th Grade | Mathematics | 65.00 | 22 | 82.00 | 17.00 | -17.00 | 289 |
| Classroom 459 | Winter | 2019 | 5th Grade | Mathematics | 2.30 | 13 | 55.00 | 52.70 | -52.70 | 2777.29 |
| Classroom 468 | Winter | 2019 | 7th Grade | Mathematics | 30.00 | 61 | 72.00 | 42.00 | -42.00 | 1764 |
| Classroom 472 | Winter | 2019 | 8th Grade | Mathematics | 21.80 | 30 | 82.50 | 60.70 | -60.70 | 3684.49 |
| Classroom 475 | Winter | 2019 | 11th Grade | Mathematics | 30.16 | 22 | 57.51 | 27.35 | -27.35 | 748.0225 |
| Classroom 476 | Winter | 2019 | 5th Grade | Mathematics | 27.00 | 24 | 42.00 | 15.00 | -15.00 | 225 |
| Classroom 481 | Winter | 2019 | 6th Grade | Mathematics | 7.00 | 23 | 65.00 | 58.00 | -58.00 | 3364 |
| Classroom 482 | Winter | 2019 | Kindergarten | Mathematics | 50.00 | 18 | 63.00 | 13.00 | -13.00 | 169 |
| Classroom 483 | Winter | 2019 | 2nd Grade | Mathematics | 68.00 | 21 | 86.00 | 18.00 | -18.00 | 324 |
| Classroom 484 | Winter | 2019 | Kindergarten | Mathematics | 56.00 | 15 | 76.00 | 20.00 | -20.00 | 400 |
| Classroom 487 | Winter | 2019 | 4th Grade | Mathematics | 55.00 | 24 | 68.00 | 13.00 | -13.00 | 169 |
| Classroom 490 | Winter | 2019 | Kindergarten | Mathematics | 46.90 | 23 | 54.76 | 7.86 | -7.86 | 61.7796 |
| Classroom 491 | Winter | 2019 | Kindergarten | Mathematics | 73.00 | 21 | 92.00 | 19.00 | -19.00 | 361 |
| Classroom 492 | Winter | 2019 | 1st Grade | Mathematics | 62.00 | 21 | 90.00 | 28.00 | -28.00 | 784 |
| Classroom 494 | Winter | 2019 | Kindergarten | Mathematics | 57.00 | 23 | 82.00 | 25.00 | -25.00 | 625 |
| Classroom 497 | Winter | 2019 | 5th Grade | Mathematics | 39.00 | 18 | 87.20 | 48.20 | -48.20 | 2323.24 |
| Classroom 502 | Winter | 2019 | 3rd Grade | Mathematics | 57.50 | 24 | 83.30 | 25.80 | -25.80 | 665.64 |
| Classroom 503 | Winter | 2019 | Kindergarten | Mathematics | 56.00 | 24 | 92.00 | 36.00 | -36.00 | 1296 |
| Classroom 506 | Winter | 2019 | 10th Grade | Mathematics | 46.50 | 85 | 81.00 | 34.50 | -34.50 | 1190.25 |
| Classroom 507 | Winter | 2019 | 2nd Grade | Mathematics | 56.00 | 22 | 94.00 | 38.00 | -38.00 | 1444 |
| Classroom 510 | Winter | 2019 | Kindergarten | Mathematics | 38.00 | 23 | 43.00 | 5.00 | -5.00 | 25 |
| Classroom 512 | Winter | 2019 | 1st Grade | Mathematics | 62.00 | 22 | 85.00 | 23.00 | -23.00 | 529 |
| Classroom 521 | Winter | 2019 | 1st Grade | Mathematics | 56.00 | 23 | 78.00 | 22.00 | -22.00 | 484 |
| Classroom 524 | Winter | 2019 | 1st Grade | Mathematics | 48.80 | 22 | 65.90 | 17.10 | -17.10 | 292.41 |
| Classroom 526 | Winter | 2019 | 4th Grade | Mathematics | 52.50 | 19 | 69.00 | 16.50 | -16.50 | 272.25 |
| Classroom 529 | Winter | 2019 | 2nd Grade | Mathematics | 54.00 | 22 | 83.00 | 29.00 | -29.00 | 841 |
| Classroom 530 | Winter | 2019 | 3rd Grade | Mathematics | 55.00 | 19 | 67.00 | 12.00 | -12.00 | 144 |
| Classroom 534 | Winter | 2019 | Kindergarten | Mathematics | 66.00 | 23 | 83.00 | 17.00 | -17.00 | 289 |
| Classroom 535 | Winter | 2019 | Kindergarten | Mathematics | 93.42 | 20 | 93.75 | 0.33 | -0.33 | 0.1089 |
| Classroom 536 | Winter | 2019 | 1st Grade | Mathematics | 33.00 | 23 | 98.00 | 65.00 | -65.00 | 4225 |
| Classroom 537 | Winter | 2019 | 4th Grade | Mathematics | 28.00 | 22 | 71.00 | 43.00 | -43.00 | 1849 |
| Classroom 544 | Fall | 2019 | 4th Grade | Mathematics | 58.00 | 26 | 67.00 | 9.00 | -9.00 | 81 |
| Classroom 545 | Fall | 2019 | 1st Grade | Mathematics | 54.00 | 22 | 70.00 | 16.00 | -16.00 | 256 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 554 | Fall | 2019 | 11th Grade | Mathematics | 47.50 | 33 | 53.50 | 6.00 | -6.00 | 36 |
| Classroom 556 | Fall | 2019 | 9th Grade | Mathematics | 96.00 | 28 | 88.00 | -8.00 | 8.00 | 64 |
| Classroom 562 | Fall | 2019 | 11th Grade | Mathematics | 70.30 | 20 | 93.00 | 22.70 | -22.70 | 515.29 |
| Classroom 563 | Fall | 2019 | 11th Grade | Mathematics | 41.00 | 46 | 80.00 | 39.00 | -39.00 | 1521 |
| Classroom 568 | Fall | 2019 | 2nd Grade | Mathematics | 78.00 | 24 | 92.00 | 14.00 | -14.00 | 196 |
| Classroom 569 | Fall | 2019 | 1st Grade | Mathematics | 25.00 | 21 | 97.00 | 72.00 | -72.00 | 5184 |
| Classroom 572 | Fall | 2019 | 10th Grade | Mathematics | 4.61 | 34 | 72.46 | 67.85 | -67.85 | 4603.6225 |
| Classroom 580 | Fall | 2019 | 4th Grade | Mathematics | 53.00 | 27 | 73.00 | 20.00 | -20.00 | 400 |
| Classroom 583 | Fall | 2019 | 4th Grade | Mathematics | 14.00 | 27 | 96.00 | 82.00 | -82.00 | 6724 |
| Classroom 584 | Fall | 2019 | Kindergarten | Mathematics | 66.00 | 23 | 90.00 | 24.00 | -24.00 | 576 |
| Classroom 591 | Fall | 2019 | 2nd Grade | Mathematics | 33.64 | 22 | 54.53 | 20.89 | -20.89 | 436.3921 |
| Classroom 592 | Fall | 2019 | 4th Grade | Mathematics | 64.00 | 16 | 71.00 | 7.00 | -7.00 | 49 |
| Classroom 593 | Fall | 2019 | 4th Grade | Mathematics | 33.00 | 22 | 80.20 | 47.20 | -47.20 | 2227.84 |
| Classroom 594 | Fall | 2019 | 5th Grade | Mathematics | 17.00 | 22 | 87.00 | 70.00 | -70.00 | 4900 |
| Classroom 595 | Fall | 2019 | 1st Grade | Mathematics | 61.00 | 20 | 95.00 | 34.00 | -34.00 | 1156 |
| Classroom 600 | Fall | 2019 | 2nd Grade | Mathematics | 4.00 | 21 | 95.00 | 91.00 | -91.00 | 8281 |
| Classroom 601 | Fall | 2019 | 3rd Grade | Mathematics | 25.00 | 23 | 85.00 | 60.00 | -60.00 | 3600 |
| Classroom 602 | Fall | 2019 | 1st Grade | Mathematics | 77.00 | 16 | 84.00 | 7.00 | -7.00 | 49 |
| Classroom 603 | Fall | 2019 | 2nd Grade | Mathematics | 22.00 | 23 | 48.00 | 26.00 | -26.00 | 676 |
| Classroom 605 | Fall | 2019 | 4th Grade | Mathematics | 50.00 | 28 | 82.00 | 32.00 | -32.00 | 1024 |
| Classroom 608 | Fall | 2019 | 4th Grade | Mathematics | 54.00 | 21 | 83.00 | 29.00 | -29.00 | 841 |
| Classroom 611 | Fall | 2019 | 3rd Grade | Mathematics | 8.70 | 23 | 64.55 | 55.85 | -55.85 | 3119.2225 |
| Classroom 612 | Fall | 2019 | 1st Grade | Mathematics | 51.00 | 22 | 86.00 | 35.00 | -35.00 | 1225 |
| Classroom 613 | Fall | 2019 | 1st Grade | Mathematics | 59.50 | 21 | 90.60 | 31.10 | -31.10 | 967.21 |
| Classroom 616 | Fall | 2019 | 4th Grade | Mathematics | 52.00 | 19 | 70.00 | 18.00 | -18.00 | 324 |
| Classroom 617 | Fall | 2019 | 1st Grade | Mathematics | 45.00 | 39 | 91.00 | 46.00 | -46.00 | 2116 |
| Classroom 619 | Fall | 2019 | 4th Grade | Mathematics | 12.00 | 19 | 78.00 | 66.00 | -66.00 | 4356 |
| Classroom 620 | Fall | 2019 | 4th Grade | Mathematics | 51.70 | 23 | 63.40 | 11.70 | -11.70 | 136.89 |
| Classroom 622 | Fall | 2019 | Kindergarten | Mathematics | 61.90 | 23 | 89.00 | 27.10 | -27.10 | 734.41 |
| Classroom 623 | Fall | 2019 | 2nd Grade | Mathematics | 60.38 | 18 | 80.60 | 20.22 | -20.22 | 408.8484 |
| Classroom 624 | Fall | 2019 | 4th Grade | Mathematics | 13.00 | 24 | 70.37 | 57.37 | -57.37 | 3291.3169 |
| Classroom 627 | Fall | 2019 | Kindergarten | Mathematics | 77.00 | 17 | 84.00 | 7.00 | -7.00 | 49 |
| Classroom 629 | Fall | 2019 | Kindergarten | Mathematics | 84.30 | 22 | 96.70 | 12.40 | -12.40 | 153.76 |
| Classroom 631 | Fall | 2019 | 4th Grade | Mathematics | 13.00 | 13 | 56.00 | 43.00 | -43.00 | 1849 |
| Classroom 632 | Fall | 2019 | 1st Grade | Mathematics | 71.00 | 21 | 76.00 | 5.00 | -5.00 | 25 |
| Classroom 633 | Fall | 2019 | 3rd Grade | Mathematics | 14.00 | 10 | 82.00 | 68.00 | -68.00 | 4624 |
| Classroom 635 | Fall | 2019 | 1st Grade | Mathematics | 42.00 | 14 | 72.00 | 30.00 | -30.00 | 900 |
| Classroom 640 | Fall | 2019 | 6th Grade | Mathematics | 70.83 | 21 | 85.19 | 14.36 | -14.36 | 206.2096 |
| Classroom 642 | Fall | 2019 | 3rd Grade | Mathematics | 44.00 | 20 | 72.00 | 28.00 | -28.00 | 784 |


| Classroom <br> Sample | Semester | Year | Grade-Level <br> Assessed | Content Area <br> Assessed | Pre- <br> SCORE <br> $(X)$ | Number <br> of P-12 <br> Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :--- | ---: |
| -2534.68 | $\mathbf{1 1 9 1 9 4 . 7 4}$ |
| L =Top Value $\left(\sum \mathrm{d} / \mathrm{N}\right)$ | -32.08 |
| $\mathrm{M}=$ Middle value | 37870.66 |
| $\mathrm{O}=$ Bottom Value | 6162.00 |
| $\mathrm{P}=$ Square root of M/O | 2.48 |
| $\mathbf{T}=\mathbf{~ ( L / P ) ~}$ | $\mathbf{- 1 2 . 9 4}$ |
| $\propto=0.05$ | Critical T = 1.645 |
|  | Significant |
| T/Square Root of <br> Effect | $\mathbf{- 1 . 4 5 6}$ |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE <br> (X) | Number of P-12 <br> Students | $\begin{gathered} \text { Post-SCORE } \\ (\mathrm{Y}) \\ \hline \end{gathered}$ | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 485 | Winter | 2019 | 10th Grade | German | 20.00 | 15 | 60.00 | 40.00 | -40.00 | 1600 |
| Classroom 550 | Fall | 2019 | 8th Grade | Spanish | 29.86 | 82 | 77.81 | 47.95 | -47.95 | 2299.2025 |
| Classroom 555 | Fall | 2019 | 10th Grade | French | 28.00 | 18 | 94.00 | 66.00 | -66.00 | 4356 |
| Classroom 559 | Fall | 2019 | 10th Grade | Spanish | 43.00 | 27 | 81.00 | 38.00 | -38.00 | 1444 |
| Classroom 596 | Fall | 2019 | 11th Grade | Spanish | 13.20 | 25 | 46.40 | 33.20 | -33.20 | 1102.24 |


| Number of Tests $=\mathbf{N}$ | Number of P-12 Students: | Average \% Improvement: | "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: |
| 5 | 167 | 45.03 | -225.15 | 10801.44 |
|  |  |  | L =Top Value ( $\mathrm{Ld} / \mathrm{N}$ ) | -45.03 |
|  |  |  | $\mathrm{M}=$ Middle value | 662.94 |
|  |  | $\sum d$ | O =Bottom Value | 20.00 |
|  |  | $N$ | P =Square root of $\mathrm{M} / \mathrm{O}$ | 5.76 |
|  | し ー | $\underline{N}$ | $\mathrm{T}=(\mathrm{L} / \mathrm{P})$ | -7.82 |
|  |  | $-\left(\sum d\right)^{2}$ | $\propto=0.05$ | Critical T = 1.645 |
|  |  | $N$ |  | Significant |
|  |  | $(N-1)$ | T/Square Root of $\mathrm{N}=$ Effect | -3.498 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 429 | Winter | 2019 | 5th Grade | Integrated Science | 36.97 | 50 | 92.47 | 55.50 | -55.50 | 3080.25 |
| Classroom 432 | Winter | 2019 | 1st Grade | Integrated Science | 31.50 | 19 | 75.40 | 43.90 | -43.90 | 1927.21 |
| Classroom 435 | Winter | 2019 | 5th Grade | Integrated Science | 12.78 | 27 | 83.11 | 70.33 | -70.33 | 4946.3089 |
| Classroom 439 | Winter | 2019 | 4th Grade | Integrated Science | 44.00 | 19 | 82.35 | 38.35 | -38.35 | 1470.7225 |
| Classroom 440 | Winter | 2019 | Kindergarten | Integrated Science | 60.40 | 20 | 98.40 | 38.00 | -38.00 | 1444 |
| Classroom 442 | Winter | 2019 | 1st Grade | Integrated Science | 47.00 | 19 | 74.00 | 27.00 | -27.00 | 729 |
| Classroom 443 | Winter | 2019 | 1st Grade | Integrated Science | 23.00 | 19 | 82.00 | 59.00 | -59.00 | 3481 |
| Classroom 451 | Winter | 2019 | 2nd Grade | Integrated Science | 62.60 | 22 | 92.40 | 29.80 | -29.80 | 888.04 |
| Classroom 452 | Winter | 2019 | 9th Grade | Earth Science | 40.00 | 11 | 72.00 | 32.00 | -32.00 | 1024 |
| Classroom 471 | Winter | 2019 | 11th Grade | Chemistry | 60.86 | 23 | 80.43 | 19.57 | -19.57 | 382.9849 |
| Classroom 486 | Winter | 2019 | 9th Grade | Biology | 49.00 | 118 | 76.00 | 27.00 | -27.00 | 729 |
| Classroom 489 | Winter | 2019 | Kindergarten | Integrated Science | 68.00 | 26 | 89.67 | 21.67 | -21.67 | 469.4444444 |
| Classroom 505 | Winter | 2019 | 3rd Grade | Integrated Science | 57.50 | 20 | 73.00 | 15.50 | -15.50 | 240.25 |
| Classroom 511 | Winter | 2019 | 5th Grade | Integrated Science | 52.00 | 25 | 77.00 | 25.00 | -25.00 | 625 |
| Classroom 514 | Winter | 2019 | 10th Grade | Chemistry | 33.70 | 29 | 76.70 | 43.00 | -43.00 | 1849 |
| Classroom 522 | Winter | 2019 | 5th Grade | Integrated Science | 31.00 | 25 | 71.00 | 40.00 | -40.00 | 1600 |
| Classroom 525 | Winter | 2019 | 4th Grade | Integrated Science | 47.00 | 23 | 80.00 | 33.00 | -33.00 | 1089 |
| Classroom 542 | Fall | 2019 | 4th Grade | Integrated Science | 59.00 | 22 | 86.00 | 27.00 | -27.00 | 729 |
| Classroom 552 | Fall | 2019 | 10th Grade | Earth Science | 40.02 | 11 | 87.22 | 47.20 | -47.20 | 2227.84 |
| Classroom 571 | Fall | 2019 | 5th Grade | Integrated Science | 33.00 | 22 | 78.00 | 45.00 | -45.00 | 2025 |
| Classroom 582 | Fall | 2019 | 5th Grade | Integrated Science | 51.00 | 24 | 97.00 | 46.00 | -46.00 | 2116 |
| Classroom 615 | Fall | 2019 | Kindergarten | Integrated Science | 29.52 | 21 | 87.14 | 57.62 | -57.62 | 3319.949161 |
| Classroom 625 | Fall | 2019 | 4th Grade | Integrated Science | 32.00 | 25 | 67.00 | 35.00 | -35.00 | 1225 |
| Classroom 626 | Fall | 2019 | 2nd Grade | Integrated Science | 46.00 | 23 | 71.80 | 25.80 | -25.80 | 665.64 |
| Classroom 634 | Fall | 2019 | 3rd Grade | Integrated Science | 50.00 | 23 | 89.00 | 39.00 | -39.00 | 1521 |
| Classroom 636 | Fall | 2019 | 1st Grade | Integrated Science | 19.00 | 24 | 81.00 | 62.00 | -62.00 | 3844 |
| Classroom 637 | Fall | 2019 | 1st Grade | Integrated Science | 24.00 | 28 | 85.00 | 61.00 | -61.00 | 3721 |
| Classroom 641 | Fall | 2019 | 3rd Grade | Integrated Science | 42.00 | 27 | 83.00 | 41.00 | -41.00 | 1681 |

Number of Tests $=\mathbf{N}$ 28

Number of P-12 Students: Average \% Improvement:
741

| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| ---: | ---: |
| $\mathbf{- 1 1 0 5 . 2 4}$ | $\mathbf{4 9 0 5 0 . 6 4}$ |
| $L=T o p ~ V a l u e ~\left(\sum d / N\right)$ | -39.47 |
| $M$ =Middle value | 5424.00 |
| O =Bottom Value | 756.00 |
| $\mathrm{P}=$ Square root of $\mathrm{M} / \mathrm{O}$ | 2.68 |



| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 438 | Winter | 2019 | 6th Grade | Social Studies | 22.00 | 129 | 94.00 | 72.00 | -72.00 | 5184 |
| Classroom 441 | Winter | 2019 | 10th Grade | Social Studies | 40.00 | 90 | 75.00 | 35.00 | -35.00 | 1225 |
| Classroom 444 | Winter | 2019 | 11th Grade | Social Studies | 5.28 | 116 | 12.54 | 7.26 | -7.26 | 52.7076 |
| Classroom 447 | Winter | 2019 | 10th Grade | Social Studies | 3.57 | 40 | 85.00 | 81.43 | -81.43 | 6630.8449 |
| Classroom 449 | Winter | 2019 | 6th Grade | Social Studies | 46.00 | 34 | 78.00 | 32.00 | -32.00 | 1024 |
| Classroom 453 | Winter | 2019 | 9th Grade | Social Studies | 19.00 | 32 | 77.00 | 58.00 | -58.00 | 3364 |
| Classroom 456 | Winter | 2019 | 10th Grade | Social Studies | 44.40 | 47 | 79.53 | 35.13 | -35.13 | 1234.1169 |
| Classroom 458 | Winter | 2019 | 10th Grade | Social Studies | 52.95 | 52 | 68.35 | 15.40 | -15.40 | 237.16 |
| Classroom 461 | Winter | 2019 | 9th Grade | Social Studies | 51.00 | 49 | 80.00 | 29.00 | -29.00 | 841 |
| Classroom 462 | Winter | 2019 | 1st Grade | Social Studies | 38.00 | 25 | 60.00 | 22.00 | -22.00 | 484 |
| Classroom 477 | Winter | 2019 | 10th Grade | Social Studies | 27.00 | 64 | 78.00 | 51.00 | -51.00 | 2601 |
| Classroom 488 | Winter | 2019 | 5th Grade | Social Studies | 1.94 | 18 | 42.00 | 40.06 | -40.06 | 1604.8036 |
| Classroom 493 | Winter | 2019 | 5th Grade | Social Studies | 0.00 | 20 | 98.24 | 98.24 | -98.24 | 9651.0976 |
| Classroom 496 | Winter | 2019 | 10th Grade | Social Studies | 60.00 | 56 | 100.00 | 40.00 | -40.00 | 1600 |
| Classroom 504 | Winter | 2019 | 7th Grade | Social Studies | 51.90 | 27 | 70.40 | 18.50 | -18.50 | 342.25 |
| Classroom 515 | Winter | 2019 | 3rd Grade | Social Studies | 87.00 | 31 | 93.00 | 6.00 | -6.00 | 36 |
| Classroom 517 | Winter | 2019 | 5th Grade | Social Studies | 3.54 | 24 | 13.61 | 10.07 | -10.07 | 101.4049 |
| Classroom 518 | Winter | 2019 | 5th Grade | Social Studies | 47.00 | 19 | 71.00 | 24.00 | -24.00 | 576 |
| Classroom 528 | Winter | 2019 | 3rd Grade | Social Studies | 52.60 | 26 | 73.50 | 20.90 | -20.90 | 436.81 |
| Classroom 531 | Winter | 2019 | 2nd Grade | Social Studies | 40.00 | 24 | 83.00 | 43.00 | -43.00 | 1849 |
| Classroom 532 | Winter | 2019 | 8th Grade | Social Studies | 9.00 | 67 | 71.00 | 62.00 | -62.00 | 3844 |
| Classroom 533 | Winter | 2019 | 9th Grade | Social Studies | 41.81 | 126 | 72.43 | 30.62 | -30.62 | 937.5844 |
| Classroom 541 | Winter | 2019 | 9th Grade | Social Studies | 34.00 | 109 | 42.00 | 8.00 | -8.00 | 64 |
| Classroom 543 | Fall | 2019 | 5th Grade | Social Studies | 33.00 | 24 | 60.00 | 27.00 | -27.00 | 729 |
| Classroom 546 | Fall | 2019 | 5th Grade | Social Studies | 37.14 | 24 | 76.00 | 38.86 | -38.86 | 1510.0996 |
| Classroom 548 | Fall | 2019 | 8th Grade | Social Studies | 32.00 | 28 | 78.00 | 46.00 | -46.00 | 2116 |
| Classroom 549 | Fall | 2019 | 11th Grade | Social Studies | 15.90 | 62 | 88.92 | 73.03 | -73.03 | 5332.720875 |
| Classroom 553 | Fall | 2019 | 7th Grade | Social Studies | 32.00 | 26 | 83.00 | 51.00 | -51.00 | 2601 |
| Classroom 570 | Fall | 2019 | 9th Grade | Social Studies | 26.00 | 64 | 53.00 | 27.00 | -27.00 | 729 |
| Classroom 574 | Fall | 2019 | 5th Grade | Social Studies | 43.00 | 27 | 78.00 | 35.00 | -35.00 | 1225 |
| Classroom 578 | Fall | 2019 | Kindergarten | Social Studies | 64.00 | 15 | 88.00 | 24.00 | -24.00 | 576 |
| Classroom 581 | Fall | 2019 | 3rd Grade | Social Studies | 83.00 | 24 | 90.00 | 7.00 | -7.00 | 49 |
| Classroom 586 | Fall | 2019 | 3rd Grade | Social Studies | 24.00 | 24 | 78.00 | 54.00 | -54.00 | 2916 |
| Classroom 587 | Fall | 2019 | 2nd Grade | Social Studies | 50.00 | 19 | 80.00 | 30.00 | -30.00 | 900 |
| Classroom 589 | Fall | 2019 | 5th Grade | Social Studies | 35.00 | 22 | 72.00 | 37.00 | -37.00 | 1369 |
| Classroom 598 | Fall | 2019 | Kindergarten | Social Studies | 39.00 | 22 | 72.00 | 33.00 | -33.00 | 1089 |
| Classroom 599 | Fall | 2019 | 3rd Grade | Social Studies | 15.00 | 24 | 97.00 | 82.00 | -82.00 | 6724 |
| Classroom 607 | Fall | 2019 | 4th Grade | Social Studies | 22.00 | 21 | 85.80 | 63.80 | -63.80 | 4070.44 |
| Classroom 614 | Fall | 2019 | 3rd Grade | Social Studies | 37.50 | 28 | 80.00 | 42.50 | -42.50 | 1806.25 |
| Classroom 628 | Fall | 2019 | 5th Grade | Social Studies | 14.00 | 25 | 65.00 | 51.00 | -51.00 | 2601 |


| Classroom Sample | Semester | Year | Grade-Level Assessed | Content Area Assessed | PreSCORE (X) | Number of P-12 Students | Post-SCORE <br> (Y) | "Y-X" <br> Change | "X-Y" or "ED" | "(X-Y)^2" or "ED^2" |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Classroom 638 | Fall | 2019 | 3rd Grade | Social Studies | 64.00 | 24 | 79.00 | 15.00 | -15.00 | 225 |
| Classroom 639 | Fall | 2019 | 3rd Grade | Social Studies | 0.00 | 20 | 90.00 | 90.00 | -90.00 | 8100 |
| Classroom 643 | Fall | 2019 | 1st Grade | Social Studies | 67.06 | 17 | 68.24 | 1.18 | -1.18 | 1.3924 |
| Classroom 647 | Fall | 2019 | 9th Grade | Social Studies | 50.00 | 18 | 86.00 | 36.00 | -36.00 | 1296 |

Number of Tests $=\mathbf{N}$
44

Number of P-12 Students: Average \% Improvement:
1776

| "X-Y" or "ED": | "(X-Y)^2" or "ED^2" |
| :--- | ---: |
| $\mathbf{- 1 7 0 3 . 9 8}$ | $\mathbf{8 9 8 8 6 . 6 8}$ |
| L =Top Value $(\mathrm{Ld} / \mathrm{N})$ | -38.73 |
| $\mathrm{M}=$ Middle value | 23897.31 |
| $\mathrm{O}=$ Bottom Value | 1892.00 |
| $\mathrm{P}=$ Square root of M/O | 3.55 |
| $\mathbf{T}=\mathbf{( L / P )}$ | $\mathbf{- 1 0 . 9 0}$ |
| $\propto=0.05$ | Critical T = 1.645 |
|  | Significant |
| T/Square Root of $N=$ <br> Effect | $\mathbf{- 1 . 6 4 3}$ |

