

Online Table 1. Recovery estimates from the three interim assessments and the Education Recovery Scorecard

| Source | Subject | Grade | Average Scores | | | | SD (S19) | Effect Sizes | | | 2019 to 2022 Decline | 2022 to 2023 Recovery | 2022 to 2024 Recovery | % Recovery by 2023 |
|-----------------------|----------------|------------|----------------|--------|--------|--------|--------------|---------------|---------------|---------------|----------------------------|-----------------------------|-----------------------------|--------------------------|
| | | | S19 | S22 | S23 | S24 | | S22 | S23 | S24 | | | | |
| Curriculum Associates | Reading | 3 | 532 | 522 | 521 | 520 | 51.6 | -0.19 | -0.21 | -0.23 | -0.072 | -0.018 | -0.039 | -25% |
| | Reading | 4 | 554 | 549 | 547 | 546 | 53 | -0.09 | -0.13 | -0.15 | | | | |
| | Reading | 5 | 572 | 568 | 568 | 567 | 55.2 | -0.07 | -0.07 | -0.09 | | | | |
| | Reading | 6 | 585 | 583 | 583 | 581 | 58.8 | -0.03 | -0.03 | -0.07 | | | | |
| | Reading | 7 | 596 | 598 | 596 | 595 | 61.3 | 0.03 | 0.00 | -0.02 | | | | |
| | Reading | 8 | 607 | 610 | 608 | 607 | — | | | | | | | |
| | Reading | 3-7 | | | | | | -0.07 | -0.09 | -0.11 | | | | |
| | Math | 3 | 457 | 447 | 447 | 447 | 29.2 | -0.34 | -0.34 | -0.34 | | | | |
| | Math | 4 | 476 | 465 | 465 | 465 | 31.70 | -0.35 | -0.35 | -0.35 | | | | |
| | Math | 5 | 486 | 477 | 478 | 478 | 32.80 | -0.27 | -0.24 | -0.24 | | | | |
| Math | 6 | 495 | 488 | 489 | 489 | 35.90 | -0.19 | -0.17 | -0.17 | | | | | |
| Math | 7 | 501 | 496 | 496 | 496 | 38.30 | -0.13 | -0.13 | -0.13 | | | | | |
| Math | 8 | 509 | 504 | 505 | 505 | — | | | | | | | | |
| Math | 3-7 | | | | | | -0.26 | -0.25 | -0.25 | -0.258 | 0.012 | 0.012 | 5% | |
| NWEA | Reading | 3 | 198.97 | 196.51 | 196.47 | 196.25 | 15.97 | -0.15 | -0.16 | -0.17 | -0.125 | -0.008 | -0.028 | -7% |
| | Reading | 4 | 206.19 | 204.38 | 204.28 | 203.96 | 15.65 | -0.12 | -0.12 | -0.14 | | | | |
| | Reading | 5 | 211.80 | 209.94 | 209.91 | 209.71 | 15.38 | -0.12 | -0.12 | -0.14 | | | | |
| | Reading | 6 | 215.70 | 213.99 | 213.95 | 213.60 | 15.49 | -0.11 | -0.11 | -0.14 | | | | |
| | Reading | 7 | 219.21 | 217.23 | 216.99 | 216.66 | 15.78 | -0.12 | -0.14 | -0.16 | | | | |
| | Reading | 8 | 222.40 | 220.46 | 220.14 | 219.66 | 15.87 | -0.12 | -0.14 | -0.17 | | | | |
| | Reading | 3-8 | | | | | | -0.12 | -0.13 | -0.15 | | | | |
| | Math | 3 | 203.09 | 200.01 | 200.77 | 200.98 | 14.18 | -0.22 | -0.16 | -0.15 | | | | |
| | Math | 4 | 212.83 | 209.46 | 209.73 | 209.81 | 15.68 | -0.21 | -0.20 | -0.19 | | | | |
| | Math | 5 | 220.98 | 216.82 | 216.75 | 216.74 | 17.45 | -0.24 | -0.24 | -0.24 | | | | |
| Math | 6 | 223.68 | 220.30 | 220.88 | 221.05 | 17.25 | -0.20 | -0.16 | -0.15 | | | | | |
| Math | 7 | 228.78 | 224.89 | 224.86 | 225.04 | 18.70 | -0.21 | -0.21 | -0.20 | | | | | |
| Math | 8 | 232.85 | 228.47 | 228.31 | 228.09 | 19.81 | -0.22 | -0.23 | -0.24 | | | | | |
| Math | 3-8 | | | | | | -0.22 | -0.20 | -0.20 | -0.216 | 0.015 | 0.020 | 7% | |
| Renaissance | Reading | 3 | 990 | 983 | 982 | | 68 | -0.10 | -0.12 | | -0.113 | 0.000 | 0.113 | 0% |
| | Reading | 4 | 1020 | 1015 | 1016 | | 67 | -0.07 | -0.06 | | | | | |
| | Reading | 5 | 1046 | 1040 | 1040 | | 67 | -0.09 | -0.09 | | | | | |
| | Reading | 6 | 1067 | 1059 | 1060 | | 68 | -0.12 | -0.10 | | | | | |
| | Reading | 7 | 1085 | 1075 | 1075 | | 70 | -0.14 | -0.14 | | | | | |
| | Reading | 8 | 1102 | 1091 | 1090 | | 72 | -0.15 | -0.17 | | | | | |
| | Reading | 3-8 | | | | | | -0.11 | -0.11 | | | | | |
| | Math | 3 | 990 | 980 | 983 | | 56 | -0.18 | -0.13 | | | | | |
| | Math | 4 | 1031 | 1020 | 1024 | | 59 | -0.19 | -0.12 | | | | | |
| | Math | 5 | 1065 | 1048 | 1053 | | 60 | -0.28 | -0.20 | | | | | |
| Math | 6 | 1083 | 1069 | 1071 | | 66 | -0.21 | -0.18 | | | | | | |
| Math | 7 | 1098 | 1085 | 1085 | | 73 | -0.18 | -0.18 | | | | | | |
| Math | 8 | 1112 | 1099 | 1098 | | 77 | -0.17 | -0.18 | | | | | | |
| Math | 3-8 | | | | | | -0.20 | -0.16 | | -0.20 | 0.04 | 0.201 | 18% | |
| Ed Recovery Scorecard | Reading | 3-8 | — | — | — | — | — | -0.095 | -0.076 | | -0.095 | 0.019 | | 20% |
| | Math | 3-8 | — | — | — | — | — | -0.149 | -0.103 | | -0.149 | 0.046 | | 31% |

Note. **Curriculum Associates:** Scale scores from Appendix Table 5 in *Curriculum Associates 2024*. Spring SDs from *Briggs & Wellspring (2022)*. **NWEA:** Scale scores and spring 2019 SDs from Table 10 in *Kuhfeld & Lewis (2024)*. **Renaissance:** Scale scores from <https://www.renaissance.com/how-kids-are-performing/>. Spring SDs from Renaissance technical manual (2022). **Ed Recovery Scorecard:** Estimates from Table 1 in *Dewey et al. (2024)*. For Ed Recovery Scorecard estimates, only 2019 to 2022 decline and 2022 to 2023 recovery are reported. We backwards-estimated year-by-year effect sizes from these estimates.