

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

Source	Subject	Grade	Average Scores				SD (S19)	Effect Sizes			2019 to 2022 Decline	2022 to 2024 Recovery
			S19	S22	S23	S24		S22	S23	S24		
NWEA	Reading	3	199.0	196.5	196.5	196.2	16.0	-0.15	-0.16	-0.17		
	Reading	4	206.2	204.4	204.3	204.0	15.6	-0.12	-0.12	-0.14		
	Reading	5	211.8	209.9	209.9	209.7	15.4	-0.12	-0.12	-0.14		
	Reading	6	215.7	214.0	213.9	213.6	15.5	-0.11	-0.11	-0.14		
	Reading	7	219.2	217.2	217.0	216.7	15.8	-0.12	-0.14	-0.16		
	Reading	8	222.4	220.5	220.1	219.7	15.9	-0.12	-0.14	-0.17		
	Reading	3-8						-0.12	-0.13	-0.15	-0.12	-0.03
	Math	3	203.1	200.0	200.8	201.0	14.2	-0.22	-0.16	-0.15		
	Math	4	212.8	209.5	209.7	209.8	15.7	-0.21	-0.20	-0.19		
	Math	5	221.0	216.8	216.7	216.7	17.4	-0.24	-0.24	-0.24		
	Math	6	223.7	220.3	220.9	221.0	17.3	-0.20	-0.16	-0.15		
	Math	7	228.8	224.9	224.9	225.0	18.7	-0.21	-0.21	-0.20		
	Math	8	232.9	228.5	228.3	228.1	19.8	-0.22	-0.23	-0.24		
	Math	3-8						-0.22	-0.20	-0.20	-0.22	0.02
Curriculum Associates	Reading	3	532	522	521	520	51.6	-0.19	-0.21	-0.23		
	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	3-8						-0.07	-0.09	-0.11	-0.07	-0.04
	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	3-8						-0.26	-0.25	-0.25	-0.26	0.01
Renaissance	Reading	3	990	983	982	986	68	-0.10	-0.12	-0.06		
	Reading	4	1020	1015	1016	1019	67	-0.07	-0.06	-0.01		
	Reading	5	1046	1040	1040	1043	67	-0.09	-0.09	-0.04		
	Reading	6	1067	1059	1060	1064	68	-0.12	-0.10	-0.04		
	Reading	7	1085	1075	1075	1080	70	-0.14	-0.14	-0.07		
	Reading	8	1102	1091	1090	1094	72	-0.15	-0.17	-0.11		
	Reading	3-8						-0.11	-0.11	-0.06	-0.11	0.06
	Math	3	990	980	983	986	56	-0.18	-0.13	-0.07		
	Math	4	1031	1020	1024	1026	59	-0.19	-0.12	-0.08		
	Math	5	1065	1048	1053	1057	60	-0.28	-0.20	-0.13		
	Math	6	1083	1069	1071	1075	66	-0.21	-0.18	-0.12		
	Math	7	1098	1085	1085	1088	73	-0.18	-0.18	-0.14		
	Math	8	1112	1099	1098	1100	77	-0.17	-0.18	-0.16		
	Math	3-8						-0.20	-0.16	-0.12	-0.20	0.08
NAEP	Reading	4	220.5	217.5	—	215.0	38.5	-0.08	—	-0.14		
	Reading	8	263.2	260.5	—	258.0	37.8	-0.07	—	-0.14		
	Reading	4-8						-0.07	—	-0.14	-0.07	-0.06
	Math	4	240.5	236.0	—	237.5	31.8	-0.14	—	-0.10		
	Math	8	282.0	274.3	—	273.8	39.8	-0.19	—	-0.21		
	Math	4-8						-0.17	—	-0.15	-0.17	0.02
Ed Recovery Scorecard (2025)	Reading	3-8	—	—	—	—	—	-0.08	-0.13		-0.08	-0.05
	Math	3-8	—	—	—	—	—	-0.16	-0.12		-0.16	0.04

Sources: Standardized estimates are calculated based on raw data from the following sources: NWEA: Scale scores and spring 2019 SDs from Table 10 in [Kuhfeld & Lewis \(2024\)](#). Curriculum Associates: Scale scores from Appendix Table 5 in [Curriculum Associates 2024](#). Spring SDs from [Briggs & Wellspring \(2022\)](#). Renaissance: Scale scores from <https://www.renaissance.com/how-kids-are-performing/>. Spring SDs from Renaissance technical manual (2022). NAEP: Scale scores and SDs from data tables available for download from the [NAEP report card](#) website.

Education Recovery Scorecard (ERS): Grade-level estimates reported in [Dewey et al. \(2025\)](#), standardized estimates from personal communication.

Notes: Averages across grade levels within a subject are shown in bold.