APPENDIX H: END-OF-GRADE SUMMER OPERATIONAL ANALYSIS: CALIBRATION, SCALING, AND EQUATING

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APPENDIX H:
2023 EOG RETEST ADMINISTRATION

The summer EOG forms included a set of operational items designated for reporting student performance on Georgia Milestones. Note that a field test item is also embedded within each test form that was administered. Note that the field test items embedded in the Georgia Milestones assessment did not contribute to a student's total raw score. The test design for the summer retest form is provided in table H.1.1 below and complete documentation of the development of the test forms administered in summer 2023 can be found within the main body of this technical report.

Table H.1.1: 2023 EOG Retest Georgia Milestones Test Design

Content Area	Grade	Number of Forms	Operational Items	Total Number of Items	Total Raw Score Points
English Language Arts	3	1	54	55	60
	5	1	54	55	60
	8	1	54	55	60
Mathematics	5	1	50	51	58
	8	1	50	51	58

Table H.2.1: 2023 Georgia Milestones Cut Scores in the Theta Metric, Linear Transformations, and LOSS/HOSS Values

Secure information has been redacted.

Table H.3.1–H.3.5: 2023 EOG Retest Scoring Tables

Secure information has been redacted.

Table H.4.1–H.4.5: 2023 EOG Retest Scoring Tables, Braille

Secure information has been redacted.

Table H.5.1: 2023 EOG Retest Scale Score Frequency Distribution, English Language Arts Grade 3

SS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
276	1	0.01	1	0.01
302	1	0.01	2	0.02
320	3	0.02	5	0.04
335	12	0.09	17	0.13
348	12	0.09	29	0.22
358	23	0.18	52	0.4
368	45	0.34	97	0.74
377	97	0.74	194	1.48
384	166	1.27	360	2.75
392	299	2.28	659	5.03
399	433	3.31	1092	8.34
405	637	4.86	1729	13.2
412	780	5.96	2509	19.16
417	931	7.11	3440	26.27
423	949	7.25	4389	33.51
429	1016	7.76	5405	41.27
434	902	6.89	6307	48.16
439	913	6.97	7220	55.13
444	823	6.28	8043	61.42
449	777	5.93	8820	67.35
454	676	5.16	9496	72.51
458	548	4.18	10044	76.7
463	554	4.23	10598	80.93
467	468	3.57	11066	84.5
472	372	2.84	11438	87.34
476	320	2.44	11758	89.78
481	278	2.12	12036	91.91
485	219	1.67	12255	93.58
490	184	1.41	12439	94.98
494	137	1.05	12576	96.03
498	128	0.98	12704	97.01
503	108	0.82	12812	97.83
507	76	0.58	12888	98.41
512	55	0.42	12943	98.83
516	45	0.34	12988	99.18
521	36	0.27	13024	99.45
525	18	0.14	13042	99.59
530	16	0.12	13058	99.71
534	8	0.06	13066	99.77
539	12	0.09	13078	99.86
544	8	0.06	13086	99.92
549	3	0.02	13089	99.95
554	3	0.02	13092	99.97
560	2	0.02	13094	99.98
578	1	0.01	13095	99.99
616	1	0.01	13096	100

Table H.5.2: 2023 EOG Retest Scale Score Frequency Distribution, English Language Arts Grade 5

SS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
336	2	0.02	2	0.02
349	3	0.03	5	0.04
361	9	0.08	14	0.12
370	12	0.1	26	0.22
379	27	0.23	53	0.45
387	45	0.39	98	0.84
394	84	0.72	182	1.56
401	151	1.29	333	2.85
407	195	1.67	528	4.53
413	258	2.21	786	6.74
419	322	2.76	1108	9.5
424	421	3.61	1529	13.1
429	556	4.77	2085	17.87
434	541	4.64	2626	22.51
439	553	4.74	3179	27.25
444	588	5.04	3767	32.28
448	616	5.28	4383	37.56
452	628	5.38	5011	42.95
456	632	5.42	5643	48.36
461	668	5.73	6311	54.09
465	603	5.17	6914	59.26
468	608	5.21	7522	64.47
472	520	4.46	8042	68.92
476	513	4.4	8555	73.32
480	450	3.86	9005	77.18
484	403	3.45	9408	80.63
487	401	3.44	9809	84.07
491	343	2.94	10152	87.01
495	285	2.44	10437	89.45
498	255	2.19	10692	91.64
502	198	1.7	10890	93.33
505	171	1.47	11061	94.8
509	115	0.99	11176	95.78
513	102	0.87	11278	96.66
516	100	0.86	11378	97.51
520	73	0.63	11451	98.14
524	52	0.45	11503	98.59
528	52	0.45	11555	99.03
532	31	0.27	11586	99.3
536	19	0.16	11605	99.46
540	18	0.15	11623	99.61
544	9	0.08	11632	99.69
549	13	0.11	11645	99.8
554	11	0.09	11656	99.9
559	6	0.05	11662	99.95
564	3	0.03	11665	99.97
570	3	0.03	11668	100

Table H.5.3: 2023 EOG Retest Scale Score Frequency Distribution, English Language Arts Grade 8

SS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
331	1	0.01	1	0.01
346	5	0.05	6	0.06
358	4	0.04	10	0.09
368	14	0.13	24	0.22
376	23	0.22	47	0.44
384	44	0.41	91	0.85
391	70	0.66	161	1.51
397	111	1.04	272	2.55
403	196	1.84	468	4.39
409	232	2.17	700	6.56
414	299	2.8	999	9.36
419	435	4.08	1434	13.44
423	460	4.31	1894	17.75
428	443	4.15	2337	21.9
432	550	5.15	2887	27.06
436	516	4.84	3403	31.89
440	486	4.55	3889	36.45
444	556	5.21	4445	41.66
448	445	4.17	4890	45.83
452	513	4.81	5403	50.64
455	459	4.3	5862	54.94
459	429	4.02	6291	58.96
462	407	3.81	6698	62.77
466	413	3.87	7111	66.64
469	417	3.91	7528	70.55
473	389	3.65	7917	74.2
476	402	3.77	8319	77.97
479	331	3.1	8650	81.07
483	286	2.68	8936	83.75
486	282	2.64	9218	86.39
490	274	2.57	9492	88.96
493	227	2.13	9719	91.09
497	182	1.71	9901	92.79
500	147	1.38	10048	94.17
504	134	1.26	10182	95.43
508	117	1.1	10299	96.52
512	81	0.76	10380	97.28
515	71	0.67	10451	97.95
519	70	0.66	10521	98.6
523	41	0.38	10562	98.99
528	31	0.29	10593	99.28
532	24	0.22	10617	99.5
537	17	0.16	10634	99.66
541	13	0.12	10647	99.78
546	8	0.07	10655	99.86
551	5	0.05	10660	99.91
557	1	0.01	10661	99.92
563	1	0.01	10662	99.93
569	4	0.04	10666	99.96
576	2	0.02	10668	99.98
583	1	0.01	10669	99.99
601	1	0.01	10670	100

Table H.5.4: 2023 EOG Retest Scale Score Frequency Distribution, Mathematics Grade 5

SS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
335	1	0.01	1	0.01
368	3	0.02	4	0.03
379	7	0.05	11	0.09
388	18	0.14	29	0.23
396	28	0.22	57	0.45
404	61	0.48	118	0.93
410	122	0.96	240	1.89
416	167	1.31	407	3.2
422	290	2.28	697	5.47
427	393	3.09	1090	8.56
432	489	3.84	1579	12.4
436	638	5.01	2217	17.41
441	703	5.52	2920	22.93
445	780	6.13	3700	29.06
449	878	6.9	4578	35.96
453	914	7.18	5492	43.14
457	854	6.71	6346	49.84
461	849	6.67	7195	56.51
464	737	5.79	7932	62.3
468	778	6.11	8710	68.41
472	666	5.23	9376	73.64
475	589	4.63	9965	78.27
479	594	4.67	10559	82.93
482	472	3.71	11031	86.64
486	371	2.91	11402	89.55
489	325	2.55	11727	92.11
492	265	2.08	11992	94.19
496	171	1.34	12163	95.53
499	158	1.24	12321	96.77
503	126	0.99	12447	97.76
506	85	0.67	12532	98.43
510	68	0.53	12600	98.96
513	42	0.33	12642	99.29
517	22	0.17	12664	99.47
521	15	0.12	12679	99.58
525	15	0.12	12694	99.7
529	11	0.09	12705	99.79
533	5	0.04	12710	99.83
537	5	0.04	12715	99.87
541	6	0.05	12721	99.91
545	5	0.04	12726	99.95
550	2	0.02	12728	99.97
555	2	0.02	12730	99.98
566	1	0.01	12731	99.99
572	1	0.01	12732	100

Table H.5.5: 2023 EOG Retest Scale Score Frequency Distribution, Mathematics Grade 8

SS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
341	1	0.01	1	0.01
360	1	0.01	2	0.02
374	2	0.02	4	0.03
385	9	0.07	13	0.11
395	21	0.17	34	0.28
403	34	0.28	68	0.56
410	86	0.71	154	1.27
417	128	1.05	282	2.32
423	181	1.49	463	3.8
429	334	2.74	797	6.55
434	420	3.45	1217	10
439	555	4.56	1772	14.56
444	686	5.64	2458	20.2
449	871	7.16	3329	27.36
453	923	7.58	4252	34.94
458	932	7.66	5184	42.6
462	968	7.95	6152	50.55
466	877	7.21	7029	57.76
470	879	7.22	7908	64.98
474	748	6.15	8656	71.13

SS	Frequency	Percent	Cumulative Frequency	Cumulative Percent
478	711	5.84	9367	76.97
482	595	4.89	9962	81.86
485	465	3.82	10427	85.68
489	445	3.66	10872	89.34
493	305	2.51	11177	91.85
497	262	2.15	11439	94
500	227	1.87	11666	95.87
504	164	1.35	11830	97.21
508	113	0.93	11943	98.14
511	75	0.62	12018	98.76
515	58	0.48	12076	99.24
519	42	0.35	12118	99.58
523	19	0.16	12137	99.74
526	14	0.12	12151	99.85
530	5	0.04	12156	99.89
534	4	0.03	12160	99.93
538	5	0.04	12165	99.97
542	3	0.02	12168	99.99
555	1	0.01	12169	100