

SPRING 2026 REPORT

mCLASS Math National Norms Tables





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Understanding mCLASS Math national norms, grades K–5

About the research

This report features the mCLASS® Math national norms for grades K–5. These norms are based on data validation analysis conducted by WestEd following the conclusion of a 2023–25 field study. A final [technical report](#) was released in October 2025.

mCLASS Math is available for grades K–5 in the 2025–2026 school year and for grades K–8 in the 2026–2027 school year. These norms provide consistent benchmarks for understanding student scores against a nationally representative sample by grade and by time of year. Amplify will regularly evaluate the mCLASS Math national norms to ensure continued accuracy and relevance.

What are mCLASS Math national norms?

National norms provide valid and reliable measures of student proficiency and thinking against a representative sample of students nationwide who took the same assessment. mCLASS Math national norms complement the assessment's empirically established cut scores, which are designed to predict end-of-year math outcomes and identify students' readiness for grade-level learning. mCLASS Math national norms were developed through rigorous psychometric analysis conducted with WestEd. The norming study followed established best practices in educational assessment, ensuring the sample represents student populations emblematic of national public school enrollment data. This research foundation supports reliable comparisons between individual students and national performance patterns. mCLASS Math goes deeper than traditional assessments that focus only on right or wrong answers to reveal mathematical thinking patterns. The benchmark assessments analyze student responses to identify valid mathematical reasoning, even in incorrect answers. This asset-based approach provides educators with deeper insights into student understanding while maintaining reliable normative comparisons. By focusing on what students already know and where they need additional support, teachers can confidently allocate instructional resources aligned to key math topics and domains to optimize for student growth.

How do educators use mCLASS Math national norms?

National norms are expressed as percentile ranks. For example, a student who scored at the 75th percentile on the 2nd grade Beginning-of-Year Benchmark performed better than 75% of students in the national norming sample at the same grade level and time of year.

These percentile ranks work alongside mCLASS Math's Benchmark performance levels to provide educators with a comprehensive insight into student performance. While percentile ranks show how students compare to peers nationally, the empirically validated cut scores indicate whether students are on track to meet future grade-level expectations.

Where are the national norms located in mCLASS Math?

National norms are available as a feature of downloadable data exports in admin reports. Raw composite scores on benchmark assessments are visible in the "item view" of the Benchmark Performance report; scaled composite scores are in the "domain view" of the Benchmark Performance report. Both the raw and scaled scores are available immediately after assessment completion.

What are the testing windows for mCLASS Math?

mCLASS Math has three universal screening windows that align with typical school calendars:

- Beginning of Year (BOY): includes grade-level content plus select precursor skills from the prior grade to assess readiness for new learning
- Middle of Year (MOY): focuses exclusively on grade-level content to measure progress
- End of Year (EOY): continues focus on grade-level expectations to track annual growth

Each window uses distinct norms reflecting expected performance at that point in the academic year. For example, the same student who scored in the 75th percentile on the 2nd grade BOY Benchmark with a raw score of 19 questions correct would score in the 61st percentile with the same score on the 2nd grade EOY Benchmark.

Below are two tables outlining testing window dates during the 2024–2025 field study, and the default testing windows for mCLASS Math K–5 users during the 2025–2026 school year.

Table 1. 2024–2025 field study testing dates by benchmark assessment

Benchmark and time of year	Field study testing dates
Beginning of Year (BOY)	September 1–October 31, 2024
Middle of Year (MOY)	January 15–February 28, 2025
End of Year (EOY)	April 1–June 5, 2025

Table 2. Default testing windows in mCLASS Math, 2025–2026

Benchmark and time of year	Start date	End date
Beginning of Year (BOY)	August 1, 2025	September 30, 2025
Middle of Year (MOY)	November 1, 2025	February 28, 2026
End of Year (EOY)	April 1, 2026	May 31, 2026

How do national norms relate to cut scores?

mCLASS Math provides both normative scores and predictive cut scores that are criterion-referenced. *Criterion-referenced* means that these cut scores are tied to an external standard of performance—in this case, Star Math.

While percentile ranks show relative student performance against a nationally representative sample of peers, mCLASS Math's criterion-referenced cut scores classify student performance into four ordered categories:

Above Benchmark

Scores in this range indicate negligible risk for math difficulty and being on track for meeting grade-level proficiency goals. Students in this score range likely need core instruction alone to stay on track and may be ready for instruction on more advanced skills.

Benchmark

Scores in this range indicate minimal risk for math difficulty and being on track for meeting grade-level proficiency goals.

Below Benchmark

Scores in this range indicate some risk for math difficulty and a likely need for strategic instructional support to meet grade-level proficiency goals.

Well Below Benchmark

Scores in this range indicate risk for math difficulties and a likely need for intensive instructional support to meet grade-level proficiency goals.

These performance levels support educational decision-making within Response to Intervention and Multi-Tiered System of Supports (MTSS) frameworks. mCLASS Math national norms and benchmark performance levels are measures that, together, are intended to help educators identify students who need targeted intervention supports and track student progress toward grade-level proficiency.

How can I obtain the data tables in a spreadsheet format?

Contact your Amplify educational consultant or customer success manager for access to norms crosswalk tables in spreadsheet format.

To learn more about the mCLASS Math national norms and assessment system, visit our math webinar library at amplify.com/webinar-library.

Kindergarten mCLASS Math National Norms Table

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score
0	-	200	-	200	-	200
1	-	200	-	200	-	200
2	-	200	-	200	1	200
3	1	200	1	216	1	218
4	3	200	2	238	2	240
5	6	205	6	256	3	258
6	10	221	10	272	4	273
7	15	235	16	287	7	287
8	20	249	24	301	10	300
9	26	262	32	314	14	312
10	32	275	39	326	19	323
11	38	288	46	339	24	335
12	46	302	54	352	29	346
13	55	316	63	365	34	357
14	64	331	71	380	39	369
15	74	348	78	395	45	381
16	83	368	85	412	51	394
17	90	391	91	433	58	407
18	96	420	96	459	64	422
19	99	465	98	500	71	440
20	-	600	99	600	79	460
21					87	486
22					94	527
23					98	600

Grade 1 mCLASS Math National Norms Table

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score
0	1	200	-	200	-	200
1	1	200	1	210	-	200
2	3	203	1	249	3	237
3	7	228	1	274	7	262
4	11	248	2	293	11	282
5	16	264	6	309	16	298
6	22	279	10	323	23	313
7	28	292	16	336	30	326
8	34	305	24	348	37	338
9	40	317	32	360	44	350
10	48	330	39	372	50	362
11	54	342	46	383	57	373
12	59	354	54	395	65	385
13	66	367	63	407	72	397
14	74	381	71	420	77	410
15	81	396	78	434	83	424
16	88	413	85	450	89	440
17	93	434	91	470	92	459
18	96	460	96	494	96	484
19	98	501	98	533	98	523
20	-	600	99	600	99	600

Grade 2 mCLASS Math National Norms Table

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
0	-	200	-	200	-	200
1	1	200	1	200	1	200
2	2	200	2	210	1	205
3	3	202	4	235	2	230
4	6	222	6	253	4	250
5	9	239	9	269	6	266
6	11	253	12	282	8	280
7	15	266	16	295	10	293
8	19	277	20	306	13	305
9	23	288	24	316	16	316
10	27	299	29	326	19	326
11	31	309	33	336	22	336
12	36	319	36	345	25	346
13	40	329	41	355	29	356
14	45	339	46	364	33	365
15	51	349	50	374	39	375
16	56	360	55	383	44	385
17	62	372	60	393	49	395
18	68	384	66	404	54	406
19	75	397	72	415	61	418
20	82	413	77	427	67	430
21	88	431	82	440	74	444
22	93	456	87	455	80	459
23	97	494	91	474	85	478
24	99	600	95	498	91	502

Grade 2 mCLASS Math National Norms Table (continued)

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score
25			98	537	96	541
26			99	600	98	600

Grade 3 mCLASS Math National Norms Table

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
0	-	200	-	200	-	200
1	1	200	1	200	-	200
2	1	200	1	224	1	200
3	1	222	2	247	1	218
4	3	242	3	265	1	238
5	6	258	4	279	2	255
6	9	271	7	292	4	268
7	12	283	9	303	6	280
8	15	294	12	313	8	291
9	18	303	15	323	10	301
10	22	313	18	332	11	310
11	26	322	22	341	14	319
12	30	330	26	349	16	327
13	35	339	30	358	19	336
14	39	347	35	366	22	344
15	44	355	40	374	25	352
16	49	363	46	382	28	359
17	53	371	51	391	31	367
18	58	379	57	399	34	375
19	61	388	62	408	38	383
20	66	396	66	417	43	391
21	72	406	71	426	47	400
22	78	415	77	436	52	408
23	82	426	82	446	57	417
24	86	437	86	457	62	427

Grade 3 mCLASS Math National Norms Table (continued)

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score
25	90	450	90	469	67	437
26	93	464	93	482	73	447
27	95	482	96	498	79	459
28	97	506	98	517	84	472
29	99	544	99	542	89	487
30	-	600	-	581	94	505
31			-	600	97	529
32					99	567
33					-	600

Grade 4 mCLASS Math National Norms Table

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
0	1	200	-	200	-	200
1	1	200	1	200	1	200
2	2	200	4	225	2	222
3	5	209	6	248	4	246
4	9	228	9	266	6	263
5	12	243	13	280	8	277
6	15	257	16	292	9	289
7	18	269	19	303	12	300
8	23	280	22	313	15	310
9	27	290	25	323	17	320
10	30	299	29	332	20	329
11	33	309	33	340	22	337
12	37	317	37	349	25	345
13	42	326	40	357	27	353
14	45	335	45	365	30	361
15	48	343	49	373	33	369
16	52	352	53	381	37	377
17	57	360	57	389	41	385
18	62	369	62	398	45	393
19	66	378	68	406	49	401
20	71	388	73	415	52	409
21	76	397	77	424	56	418
22	80	408	81	434	60	426
23	84	419	85	444	65	436
24	88	431	89	456	70	446

Grade 4 mCLASS Math National Norms Table (continued)

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score
25	92	445	93	469	75	457
26	94	461	96	484	80	468
27	96	481	98	502	84	482
28	98	508	99	526	89	497
29	99	551	99	564	92	516
30	-	600	-	600	95	540
31					98	579
32					99	600

Grade 5 mCLASS Math National Norms Table

Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
0	-	200	1	200	1	200
1	1	200	1	214	1	201
2	4	221	3	253	2	240
3	8	247	6	278	5	264
4	12	266	10	297	8	283
5	15	282	16	312	11	298
6	19	295	21	325	15	311
7	24	308	25	337	18	324
8	29	319	30	348	22	335
9	34	329	36	359	27	345
10	39	339	42	368	31	355
11	45	348	48	377	35	364
12	51	357	53	386	39	373
13	55	366	58	395	43	382
14	60	374	63	404	46	391
15	65	382	67	412	50	400
16	69	391	71	421	54	408
17	74	399	74	429	58	417
18	78	408	78	438	62	425
19	81	416	82	447	66	434
20	83	425	85	456	69	443
21	86	435	88	465	73	452
22	89	444	91	475	78	462
23	91	455	93	486	82	472
24	94	466	95	498	85	482

Grade 5 mCLASS Math National Norms Table (continued)

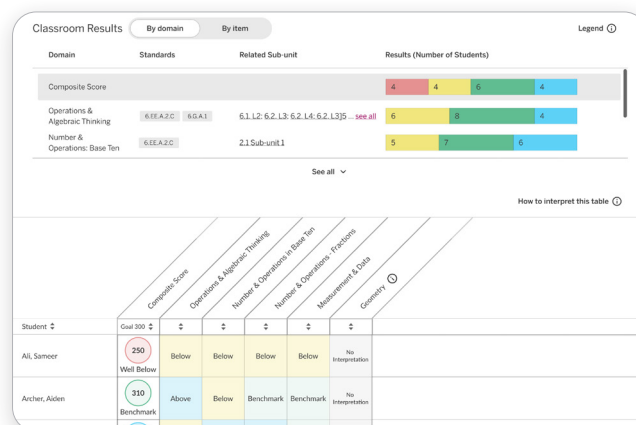
Raw Score (Item View)	Beginning of Year		Middle of Year		End of Year	
	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score
25	95	479	96	511	88	494
26	96	494	97	526	91	507
27	98	512	98	544	94	522
28	99	536	99	568	96	540
29	-	574	-	600	98	564
30	-	600	-	600	99	600
31					-	600

Go beyond right and wrong answers with a complete K–8 math assessment system.

mCLASS Math Benchmark assessments

Digitally administered three times a year (Beginning-, Middle-, and End-of-Year) with diagnostic and screening abilities to help:

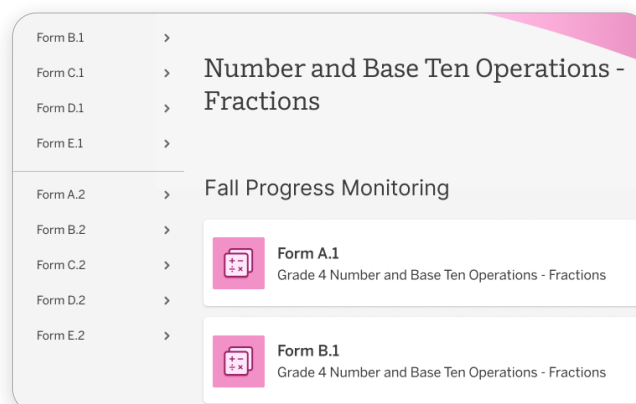
- Measure growth against grade-level expectations
- Identify strengths and areas for Tier 2 and Tier 3 interventions
- Flag potential risk of dyscalculia for early support



mCLASS Math Progress Monitoring

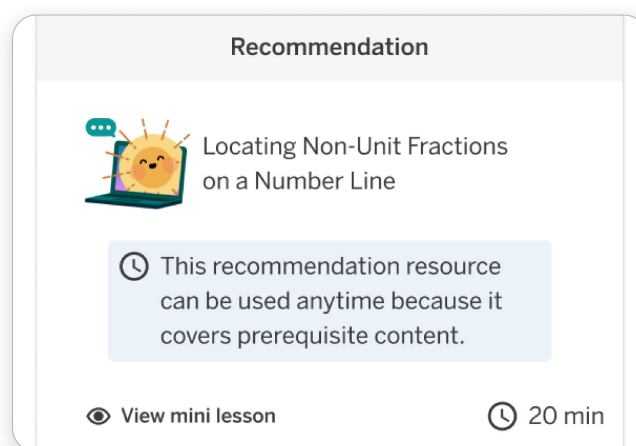
Quick, targeted assessments administered between benchmarks to help:

- Track student performance in specific skills and concepts over time
- Inform instructional adjustments with in-the-moment recommendations



Instructional supports for MTSS Tiers 1–3

The Student Thinking Report provides insights aligned to core instruction, with classroom trends in student thinking, specific ways students got their answers, and recommendations on what instructional resources to use next. These supports include Personalized Learning, Mini-Lessons, Centers (grades K–5), Fluency Practice, Extensions, and more.



Learn more at amplify.com/mclassmathsample.

Notes

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