

Mathematics Targets

Thumb Area Student Achievement Model • Updated December 9, 2011

Early Numeracy Grades K-1

Targets based on research data published by the Research Institute on Progress Monitoring (RIPM) as of August, 2011.

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Kindergarten									
Number Identification (NID)	0-3	4-9	10+	0-10	11-18	19+	0-14	15-25	26+
Quantity Discrimination (QD)	0-3	4-8	9+	0-10	11-18	19+	0-14	15-21	22+
Missing Number (MN)	<i>not administered</i>			0-6	7-8	9+	0-9	10-12	13+
Mixed Numeracy (MXD)	<i>not administered</i>						0-14	15-20	21+
Grade 1									
Number Identification (NID)	0-18	19-33	34+	0-28	29-41	42+	0-32	33-51	52+
Quantity Discrimination (QD)	0-16	17-25	26+	0-22	23-29	30+	0-27	28-36	37+
Missing Number (MN)	0-9	10-12	13+	0-11	12-14	15+	0-14	15-19	20+
Mixed Numeracy (MXD)	0-14	15-19	20+	0-18	19-26	27+	0-23	24-31	32+

All Grade 1 students are assessed on Mixed Numeracy in the fall. Those who do not meet the fall target should be monitored on their skill of need throughout the year. Goals should be based on Grade 1 targets.

easyCBM Grades 1-8

Targets based on research data published by easyCBM.com as of August, 2011.

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Grade 1									
Number and Operations	0-6	7-9	10+	0-10	11-12	13+	0-11	12-14	15+
Geometry	0-8	9-11	12+	0-9	10-12	13+	0-11	12-13	14+
Number, Operations, and Algebra	0-4	5-6	7+	0-5	6-8	9+	0-8	9-11	12+
Math Benchmark	0-20	21-26	27+	0-25	26-32	33+	0-30	31-36	37+

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Grade 2									
Number and Operations	0-5	6-8	9+	0-7	8-11	12+	0-8	9-11	12+
Measurement	0-5	6-7	8+	0-6	7-9	10+	0-10	11-13	14+
Number, Operations, and Algebra	0-5	6-7	8+	0-7	8-11	12+	0-8	9-12	13+
Math Benchmark	0-17	18-23	24+	0-22	23-32	33+	0-29	30-36	37+
Grade 3									
Number and Operations	0-7	8-9	10+	0-8	9-10	11+	0-9	10-12	13+
Geometry	0-10	11-12	13+	0-11	12	13+	0-12	13	14+
Number, Operations, and Algebra	0-6	7-9	10+	0-8	9-11	12+	0-10	11-12	13+
Math Benchmark	0-25	26-30	31+	0-29	30-34	35+	0-31	32-37	38+
Grade 4									
Number and Operations	0-7	8-10	11+	0-9	10-11	12+	0-9	10-12	13+
Measurement	0-10	11-12	13+	0-10	11-12	13+	0-11	12-13	14+
Number, Operations, and Algebra	0-8	9-10	11+	0-10	11-12	13+	0-10	11-13	14+
Math Benchmark	0-25	26-32	33+	0-29	30-34	35+	0-30	31-37	38+
Grade 5									
Number and Operations	0-8	9-10	11+	0-8	9-11	12+	0-10	11-13	14+
Geometry, Measurement, and Algebra	0-9	10-11	12+	0-10	11-12	13+	0-11	12-13	14+
Number, Operations, and Algebra	0-7	8-10	11+	0-9	10-12	13+	0-10	11-14	15+
Math Benchmark	0-24	25-31	32+	0-26	27-34	35+	0-30	31-39	40+
Grade 6									
Number and Operations	0-6	7-8	9+	0-7	8-9	10+	0-8	9-11	12+
Algebra	0-10	11-12	13+	0-10	11-12	13+	0-11	12-13	14+
Number, Operations, and Ratios	0-9	10-12	13+	0-9	10-12	13+	0-10	11-13	14+
Math Benchmark	0-25	26-31	32+	0-27	28-32	33+	0-30	31-37	38+

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Grade 7									
Number and Operations, Algebra, and Geometry	0-10	11-13	14+	0-10	11-12	13+	0-10	11-13	14+
Measurement, Geometry, and Algebra	0-6	7-9	10+	0-7	8-10	11+	0-7	8-11	12+
Number and Operations and Algebra	0-8	9-11	12+	0-8	9-12	13+	0-9	10-12	13+
Math Benchmark	0-25	26-32	33+	0-26	27-33	34+	0-26	27-35	36+
Grade 8									
Algebra	0-6	7-9	10+	0-8	9-14	15+	0-8	9-14	15+
Geometry and Measurement	0-8	9-11	12+	0-8	9-12	13+	0-9	10-12	13+
Data Analysis, Number and Operations, and Algebra	0-10	11-13	14+	0-10	11-14	15+	0-10	11-14	15+
Math Benchmark	0-23	24-31	32+	0-26	27-37	38+	0-26	27-37	38+

Monitoring Basic Skills Progress MBSP Grades 1-6

Targets based on research data published by MBSP- tier 2 and 3 cut-offs TBD after local data analysis

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Grade 1									
Basic Math Computation-Problems Correct			6+			12+			14+
Grade 2									
Basic Math Computation-Problems Correct			6+			11+			13+
Grade 3									
Basic Math Computation-Problems Correct			5+			9+			12+
Grade 4									
Basic Math Computation-Problems Correct			6+			11+			13+
Grade 5									
Basic Math Computation-Problems Correct			4+			5+			8+

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Grade 6									
Basic Math Computation-Problems Correct			5+			6+			7+

Algebra Measure Grades 6, 7, 8, and Algebra 1

Algebra targets for 2011-2012 are the same as for 2010-2011.

	Fall			Winter			Spring		
	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target	Tier 3	Tier 2	Target
Grade 6									
Algebra Basic Skills	0-4	5-7	9	0-5	6-9	12	0-6	7-11	14
Grade 7									
Algebra Basic Skills	0-5	6-9	12	0-7	8-11	12	0-8	9-12	14
Algebra Foundations	0-3	4-6	9	0-4	5-8	12	0-5	6-10	15
Grade 8									
Algebra Foundations	0-7	8-10	14	0-8	9-12	17	0-9	10-14	20
Content Analysis	na	0-6	12	0-4	5-8	15	0-5	6-12	20
Algebra 1 (all grades)									
Algebra Foundations	0-7	8-11	16	0-8	9-13	19	0-9	10-15	22
Content Analysis	0-3	4-10	18	0-6	7-13	21	0-12	13-27	24

Teams will study the data this year to find the targets and cut scores that best predict MEAP/MME success. Expect updated cut scores in 2012-2013.