



Data Interpretation Guide

THIRD GRADE 2016-2017

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Established Benchmarks Levels

Third Grade

Measure	Beginning of Year		Middle of Year		End of Year	
	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
CBM/ORF	0 - 52	Well Below	0 - 66	Well Below	0 - 79	Well Below
	53 - 76	Below	67 - 91	Below	80 - 109	Below
	≥ 77	At/Above	≥ 92	At/Above	≥ 110	At/Above
CBM Maze	---	---	---	---	≥ 18	At/Above
D-ORF*	0 - 54	Well Below	0 - 67	Well Below	0 - 79	Well Below
	55 - 69	Below	68 - 85	Below	80 - 99	Below
	≥ 70	At/Above	≥ 86	At/Above	≥ 100	At/Above
DAZE	0 - 4	Well Below	0 - 6	Well Below	0 - 13	Well Below
	5 - 7	Below	7 - 10	Below	14 - 18	Below
	≥ 8	At/Above	≥ 11	At/Above	≥ 19	At/Above

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Massachusetts Public Schools' Norms: *Third Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
Fall						
■ CBM/ORF	≥ 142	120-141	86-119	72-85	55-71	≤ 54
■ CBM Maze	≥ 22	17-21	12-16	10-11	7-9	≤ 6
■ D-ORF*	≥ 134	110-133	79-109	67-78	48-66	≤ 47
■ DAZE**	≥ 18	14-17	8-13	6-7	4-5	≤ 3
Winter						
■ CBM/ORF	≥ 162	142-161	108-141	94-107	75-93	≤ 74
■ CBM Maze	≥ 29	24-28	17-23	15-16	11-14	≤ 10
■ D-ORF*	≥ 150	128-149	96-127	84-95	61-83	≤ 60
■ DAZE**	≥ 274	20-23	12-19	9-11	7-8	≤ 6
Spring						
■ CBM/ORF	≥ 176	154-175	123-153	109-122	92-108	≤ 91
■ CBM Maze	≥ 35	29-34	21-28	18-20	14-17	≤ 13
■ D-ORF*	≥ 164	142-163	107-141	94-106	73-93	≤ 72
■ DAZE**	≥ 30	26-30	18-25	15-17	11-14	≤ 10

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National FAST CBM Reading & Adaptive Norms: *Third Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
Fall						
FAST CBM Reading	≥ 142	124-141	91-123	76-90	55-75	≤ 54
FAST aReading	≥ 508	502-507	483-501	478-482	471-477	≤ 470
FAST aMath	≥ 211	209-210	203-208	200-202	196-199	≤ 195
Winter						
FAST CBM Reading	≥ 162	145-161	115-144	100-114	79-99	≤ 78
FAST aReading	≥ 518	510-517	496-509	486-495	478-485	≤ 477
FAST aMath	≥ 215	213-214	208-212	205-207	200-204	≤ 199
Spring						
FAST CBM Reading	≥ 176	159-175	130-158	116-129	95-115	≤ 94
FAST aReading	≥ 526	518-525	502-517	495-501	482-494	≤ 481
FAST aMath	≥ 217	216	211-215	208-210	202-207	≤ 201

Benchmarks for FAST CBM Reading & Adaptive Measures – Third Grade

Measure	Fall		Winter		Spring	
	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
CBM Reading	0 - 62	Well Below	0 - 87	Well Below	0 - 102	Well Below
	63 - 90	Below	88 - 114	Below	103 - 129	Below
	≥ 91	At/Above	≥ 115	At/Above	≥ 130	At/Above
aReading	0 - 473	Well Below	0 - 479	Well Below	0 - 485	Well Below
	474 - 482	Below	480 - 495	Below	486 - 500	Below
	≥ 483	At/Above	≥ 496	At/Above	≥ 501	At/Above
aMath	0 - 197	Well Below	0 - 200	Well Below	0 - 203	Well Below
	198 - 201	Below	201 - 206	Below	204 - 209	Below
	≥ 202	At/Above	≥ 207	At/Above	≥ 210	At/Above

Expected Weekly Growth Rates for **CBM/ORF/D-ORF***, **CBM Maze**, & **DAZE**

GRADE 3		
Subtest	Realistic	Ambitious
CBM/ORF/D-ORF*	1.00	1.50
CBM Maze	0.30	0.46
DAZE	N/A	N/A

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From Fuchs, Fuchs, Hamlett, Walz, & Germann (1993). Formative evaluation of academic progress: How much growth can we expect? *School Psychology Review*, 22(1), 27-48.

Note: From C. Parker (2012). [*Utilizing CBM-MAZE to examine the weekly growth rates of grades 2-8 students' reading comprehension skills*]. Unpublished raw data.

Shaping Expectations...

Predicting MCAS Success in Grade 3

- Within their 2005 report, the UMASS Donahue Institute provided further evidence for trying to help students achieve **General Outcome Indicator benchmark standards**:

Fall ORF - Grade 3	%	Late Spring - Grade 3
<i>Low Risk</i> for ORF (≥ 77 WRC)	72	<i>Proficient</i> on MCAS*
<i>At Risk</i> for ORF (≤ 52 WRC)	19	<i>Proficient</i> on MCAS*

- To predict the number of students in your class who are likely to score proficient, use the following formula:
$$(\# \text{ of students } \geq 77) / (\text{total } \# \text{ of students}) * .72 * 100 =$$

*Note: 80% of MRF students with Fall ORF scores ≥ 90 scored within the Proficient range on MCAS.

Gain Scores Table: Third Grade

Subtest	Weeks	Ambitious	Typical	Less than Typical
CBM/ORF/D-ORF*	5	≥ 9	5-8	≤ 4
	8	≥ 13	8-12	≤ 7
	10	≥ 16	10-15	≤ 9
CBM Maze	5	≥ 3	2	≤ 1
	8	≥ 4	2-3	≤ 1
	10	≥ 5	3-4	≤ 2
DAZE	NOT AVAILABLE			

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**Massachusetts 2016-2017
40th Percentile
Cut-off Scores for the 4-Square Instructional Grouping Tables**

Third Grade

Test	Fall 40th %	Winter 40th %	Spring 40th %
CBM/ORF	86	108	123
CBM Maze	12	17	21
D-ORF*	79	96	107
DAZE	11	14	20

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