



Data Interpretation Guide

FIFTH GRADE 2016-2017

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Established Benchmarks Levels

Fifth Grade

Measure	Beginning of Year		Middle of Year		End of Year	
	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
CBM/ORF	0 - 80	Well Below	0 - 93	Well Below	0 - 102	Well Below
	81 - 103	Below	94 - 114	Below	103 - 123	Below
	≥ 104	At/Above	≥ 115	At/Above	≥ 124	At/Above
CBM Maze	---	---	---	---	≥ 30	At/Above
D-ORF*	0 - 95	Well Below	0 - 100	Well Below	0 - 104	Well Below
	96 - 110	Below	101 - 119	Below	105 - 129	Below
	≥ 111	At/Above	≥ 120	At/Above	≥ 130	At/Above
DAZE	0 - 11	Well Below	0 - 12	Well Below	0 - 17	Well Below
	12 - 17	Below	13 - 19	Below	18 - 23	Below
	≥ 18	At/Above	≥ 20	At/Above	≥ 24	At/Above

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Massachusetts Public Schools' Norms: *Fifth Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
Fall						
■ CBM/ORF	≥ 179	159-178	122-158	108-121	87-107	≤ 86
■ CBM Maze	≥ 34	29-33	21-28	18-20	13-17	≤ 12
■ D-ORF*	≥ 165	145-164	110-144	95-109	76-94	≤ 75
■ DAZE**	≥ 30	24-29	14-23	11-13	8-10	≤ 7
Winter						
■ CBM/ORF	≥ 193	174-192	138-173	124-137	100-123	≤ 99
■ CBM Maze	≥ 41	35-40	26-34	22-25	17-21	≤ 16
■ D-ORF*	≥ 179	160-178	126-159	112-125	97-111	≤ 96
■ DAZE**	≥ 30	25-29	17-24	14-16	11-13	≤ 10
Spring						
■ CBM/ORF	≥ 205	186-204	151-185	136-150	115-135	≤ 114
■ CBM Maze	≥ 46	41-45	31-40	27-30	21-26	≤ 20
■ D-ORF*	≥ 190	168-189	137-167	121-136	102-120	≤ 101
■ DAZE**	≥ 39	33-38	23-32	20-22	16-19	≤ 15

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

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
Fall						
FAST CBM Reading	≥ 181	164-180	133-163	118-132	100-117	≤ 99
FAST aReading	≥ 533	525-532	508-524	501-507	488-500	≤ 487
FAST aMath	≥ 224	222-223	214-221	211-213	206-210	≤ 205
Winter						
FAST CBM Reading	≥ 196	179-195	150-178	136-149	116-135	≤ 115
FAST aReading	≥ 538	531-537	516-530	507-515	498-506	≤ 497
FAST aMath	≥ 231	227-230	220-226	216-219	210-215	≤ 209
Spring						
FAST CBM Reading	≥ 210	193-209	161-192	149-160	128-148	≤ 127
FAST aReading	≥ 542	538-541	521-537	513-520	502-512	≤ 501
FAST aMath	≥ 238	233-237	224-232	221-223	214-220	≤ 213

Benchmarks for FAST CBM Reading & Adaptive Measures – Fifth Grade

Measure	Fall		Winter		Spring	
	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
CBM Reading	0 - 106	Well Below	0 - 122	Well Below	0 - 136	Well Below
	107 - 132	Below	123 - 149	Below	137 - 160	Below
	≥ 133	At/Above	≥ 150	At/Above	≥ 161	At/Above
aReading	0 - 494	Well Below	0 - 500	Well Below	0 - 504	Well Below
	495 - 507	Below	501 - 514	Below	505 - 520	Below
	≥ 508	At/Above	≥ 515	At/Above	≥ 521	At/Above
aMath	0 - 206	Well Below	0 - 211	Well Below	0 - 216	Well Below
	207 - 213	Below	212 - 219	Below	217 - 223	Below
	≥ 214	At/Above	≥ 220	At/Above	≥ 224	At/Above

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

GRADE 5		
Subtest	Realistic	Ambitious
CBM/ORF/D-ORF*	0.50	0.80
CBM Maze	0.28	0.43
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 5

- A new statistical analysis helps delineate cut scores that students need to achieve to establish the odds in their favor for scoring either **Proficient or Advanced** on the **English Language Arts MCAS**.

Grade 5 <i>Fall ORF</i>	Odds Prof./ Adv.
105	70%
117	80%
135	90%
Grade 5 <i>Fall Maze</i>	Odds Prof./ Adv.
17	70%
21	80%
24	90%

Gain Scores Table: Fifth Grade

Subtest	Weeks	Ambitious	Typical	Less than Typical
CBM/ORF/D-ORF*	5	≥ 5	3-4	≤ 2
	8	≥ 7	4-6	≤ 3
	10	≥ 9	5-8	≤ 4
CBM Maze	5	≥ 3	2	≤ 1
	8	≥ 3	2	≤ 1
	10	≥ 4	3	≤ 2
DAZE	NOT AVAILABLE			

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

Fifth Grade

Test	Fall 40th %	Winter 40th %	Spring 40th %
CBM/ORF	122	138	151
CBM Maze	21	26	31
D-ORF*	110	126	137
DAZE	20	19	27

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