



# ***Data Interpretation Guide*** ***National Standards of Success***

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## **FOURTH GRADE** **2016-2017**

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# Established Benchmarks Levels

## Fourth Grade

	Beginning of Year		Middle of Year		End of Year	
Measure	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
CBM/ORF	0 - 70	Well Below	0 - 82	Well Below	0 - 95	Well Below
	71 - 92	Below	83 - 104	Below	96 - 117	Below
	≥ 93	At/Above	≥ 105	At/Above	≥ 118	At/Above
CBM Maze	---	---	---	---	≥ 24	At/Above
D-ORF*	0 - 69	Well Below	0 - 78	Well Below	0 - 94	Well Below
	70 - 89	Below	79 - 102	Below	95 - 114	Below
	≥ 90	At/Above	≥ 103	At/Above	≥ 115	At/Above
DAZE	0 - 9	Well Below	0 - 11	Well Below	0 - 19	Well Below
	10 - 14	Below	12 - 16	Below	20 - 23	Below
	≥ 15	At/Above	≥ 17	At/Above	≥ 24	At/Above

\*D-ORF - DIBELS® Next Oral Reading Fluency (DORF)

# National Public Schools' Norms: *Fourth Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
<b>Fall</b>						
■ CBM/ORF	≥ 154	130-153	95-129	79-94	58-78	≤ 57
■ CBM Maze	≥ 21	18-20	12-17	9-11	6-8	≤ 5
■ D-ORF*	≥ 144	121-143	84-120	67-83	48-66	≤ 47
■ DAZE	≥ 26	22-25	14-21	11-13	7-10	≤ 6
<b>Winter</b>						
■ CBM/ORF	≥ 172	148-171	110-147	96-109	72-95	≤ 71
■ CBM Maze	≥ 31	26-30	17-25	14-16	10-13	≤ 9
■ D-ORF*	≥ 157	137-156	103-136	87-102	61-86	≤ 60
■ DAZE	≥ 29	25-28	16-24	13-15	10-12	≤ 9
<b>Spring</b>						
■ CBM/ORF	≥ 190	164-189	123-163	106-122	85-105	≤ 84
■ CBM Maze	≥ 36	32-35	23-31	20-22	15-19	≤ 14
■ D-ORF*	≥ 171	150-170	115-149	101-114	77-100	≤ 76
■ DAZE	≥ 39	34-38	24-33	21-23	16-20	≤ 15

\*D-ORF - DIBELS® Next Oral Reading Fluency (DORF)

## Benchmarks for FAST CBM Reading & Adaptive Measures – Fourth Grade

Measure	Fall		Winter		Spring	
	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
CBM Reading	0 - 92	Well Below	0 - 109	Well Below	0 - 122	Well Below
	93 - 116	Below	110 - 134	Below	123 - 149	Below
	≥ 117	At/Above	≥ 135	At/Above	≥ 150	At/Above
aReading	0 - 480	Well Below	0 - 491	Well Below	0 - 497	Well Below
	481 - 498	Below	492 - 504	Below	498 - 510	Below
	≥ 499	At/Above	≥ 505	At/Above	≥ 511	At/Above
aMath	0 - 202	Well Below	0 - 206	Well Below	0 - 209	Well Below
	203 - 208	Below	207 - 211	Below	210 - 216	Below
	≥ 209	At/Above	≥ 212	At/Above	≥ 217	At/Above

# National FAST CBM Reading & Adaptive Norms: *Fourth Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
<b>Fall</b>						
FAST CBM Reading	≥ 167	149-166	116-148	103-115	86-102	≤ 85
FAST aReading	≥ 521	515-520	499-514	490-498	479-489	≤ 478
FAST aMath	≥ 216	215	210-214	207-209	203-206	≤ 202
<b>Winter</b>						
FAST CBM Reading	≥ 182	167-181	136-166	122-135	102-121	≤ 101
FAST aReading	≥ 529	521-528	505-520	499-504	486-498	≤ 485
FAST aMath	≥ 221	219-220	213-218	211-212	208-210	≤ 207
<b>Spring</b>						
FAST CBM Reading	≥ 198	180-197	150-179	135-149	115-134	≤ 114
FAST aReading	≥ 536	529-535	511-528	504-510	494-503	≤ 493
FAST aMath	≥ 228	225-227	219-224	215-218	211-214	≤ 210

# National CBM Math Norms: *Fourth Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
<b>Fall</b>						
M-CAP	≥ 21	17-20	10-16	8-9	7	≤ 6
M-COMP	≥ 48	36-47	21-35	16-20	11-15	≤ 10
<b>Winter</b>						
M-CAP	≥ 26	21-25	13-20	11-12	9-10	≤ 8
M-COMP	≥ 64	55-63	38-54	30-37	22-29	≤ 21
<b>Spring</b>						
M-CAP	≥ 31	24-30	15-23	12-14	10-11	≤ 9
M-COMP	≥ 70	66-69	50-65	41-49	28-40	≤ 27

# DIBELS MATH Benchmarks

## Fourth Grade

Measure	Beginning of Year		Middle of Year		End of Year	
	Performance	Benchmark Status	Performance	Benchmark Status	Performance	Benchmark Status
COMP	0 - 12	Well Below	0 - 20	Well Below	0 - 32	Well Below
	13 - 17	Below	21 - 30	Below	33 - 45	Below
	≥ 18	At/Above	≥ 31	At/Above	≥ 46	At/Above
C&A	0 - 20	Well Below	0 - 26	Well Below	0 - 43	Well Below
	21 - 31	Below	27 - 42	Below	44 - 68	Below
	≥ 32	At/Above	≥ 43	At/Above	≥ 69	At/Above
Composite	0 - 51	Well Below	0 - 54	Well Below	0 - 80	Well Below
	52 - 76	Below	55 - 82	Below	81 - 116	Below
	≥ 77	At/Above	≥ 83	At/Above	≥ 117	At/Above

# National DIBELS Math Norms: *Fourth Grade*

Subtest	Well Above Average	Above Average	Average	Low Average	Below Average	Well Below Average
<b>Fall</b>						
Computation	≥ 39	29-38	17-28	14-16	10-13	≤ 9
Concepts & Applications	≥ 80	57-79	31-56	23-30	14-22	≤ 13
Composite	≥ 151	113-150	69-112	55-68	39-54	≤ 38
<b>Winter</b>						
Computation	≥ 77	55-76	31-54	24-30	16-23	≤ 15
Concepts & Applications	≥ 99	80-98	45-79	32-44	21-31	≤ 20
Composite	≥ 167	132-166	80-131	61-79	41-60	≤ 40
<b>Spring</b>						
Computation	≥ 105	80-104	47-79	37-46	25-36	≤ 24
Concepts & Applications	≥ 115	102-114	71-101	52-70	31-51	≤ 30
Composite	≥ 212	176-211	120-175	95-119	63-94	≤ 62



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

GRADE 4		
Subtest	Realistic	Ambitious
CBM/ORF/D-ORF*	0.85	1.10
CBM Maze	0.30	0.46
DAZE	N/A	N/A

\*D-ORF - DIBELS® Next Oral Reading Fluency (DORF)

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.

# Gain Scores Table: Fourth Grade

Subtest	Weeks	Ambitious	Typical	Less than Typical
CBM/ORF/D-ORF*	5	$\geq 7$	4-6	$\leq 3$
	8	$\geq 10$	7-9	$\leq 6$
	10	$\geq 12$	9-11	$\leq 8$
CBM Maze	5	$\geq 3$	2	$\leq 1$
	8	$\geq 4$	2-3	$\leq 1$
	10	$\geq 5$	3-4	$\leq 2$
DAZE	NOT AVAILABLE			

\*D-ORF - DIBELS® Next Oral Reading Fluency (DORF)

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

**Fourth Grade**

<b>Test</b>	<b>Fall 40<sup>th</sup> %</b>	<b>Winter 40<sup>th</sup> %</b>	<b>Spring 40<sup>th</sup> %</b>
<b>CBM/ORF</b>	<b>95</b>	<b>110</b>	<b>123</b>
<b>CBM Maze</b>	<b>12</b>	<b>17</b>	<b>23</b>
<b>D-ORF*</b>	<b>80</b>	<b>101</b>	<b>112</b>
<b>DAZE</b>	<b>12</b>	<b>15</b>	<b>23</b>

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