

AIMSweb® Default Cut Scores Explained

AIMSweb has recently completed a complex research project using data from 20 states to predict probabilities of success on state tests from scores on AIMSweb measures. The study used data for both R-CBM and M-CAP at grades 1 (or 2) through 8 to derive cut scores associated with 50% and 80% probability of passing the typical state test in reading or math. These cut scores are now included as the optional default cut scores in AIMSweb reports.

For detailed information, or further questions, please refer to the *State Prediction User's Guide*, or contact AIMSweb Support at 866.313.6194, option 1, or by email at AIMSwebsupport@pearson.com.

Based on this body of research on R-CBM and M-CAP, AIMSweb researchers were also able to select default cut scores for Reading Maze, M-COMP, Written Expression, and Spelling. When the researchers reviewed the percentile values of the R-CBM and M-CAP cut scores on the new National Norms, they were struck by the high level of consistency of the percentiles across grades, benchmark periods, and measures. For both measures, the 80% Success Probability score was consistently close to the 45th percentile and the 50% Success Probability score was consistently near the 15th percentile. For this reason, AIMSweb concluded that it would be reasonable to use those percentile values to set default cut scores for other measures of reading, language arts, and math. (The early literacy measures, TEL and TEN, were handled differently, as described in the next section.)

For Maze, M-COMP, Written Expression, and Spelling, the default cut scores should not be interpreted as predictors of state test success, because they are not based on direct empirical evidence involving scores on those measures. The rationale for these cut scores is that if the lowest-scoring 15% of the national student population has consistently been found to be at severe risk in reading and math, and the lowest-scoring 45% at moderate risk, then it is reasonable to use those percentages as a guide to the number of students who should be identified as at-risk when using other measures. This method has the benefit of being grounded in empirical research, rather than using theoretical or arbitrary percentile cutoffs.

AIMSweb Default Cut Scores for TEL and TEN

The default cut scores for the Test of Early Literacy (TEL) and Test of Early Numeracy (TEN) measures were established in a similar way, but using a different criterion for success. Silbergliitt (2001) did a study of the relationship of AIMSweb TEL scores to reading success in Grade 2 as measured by adequate R-CBM performance. He identified the raw scores on Letter Sound Fluency (by grade and period) that predicted success, and these are consistently close to the 35th percentile on the new AIMSweb National Norms. That percentile value is used for the higher cut score on the TEL and TEN measures; the lower cut score is set at the 15th percentile, consistent with its location for the other AIMSweb measures.

You can read further about this research if you log in to AIMSweb, go to the yellow "Downloads" tab, "Training" subtab, and at the bottom, review the *State Prediction User's Guide*. From this research, AIMSweb recently released (for Fall 2011) new "AIMSweb Default" cut scores and targets. These are now, by default, pre-loaded into AIMSweb reports and are available for every customer, in addition to whatever other local targets or cut scores you may have decided to customize within your account.

The following pages include a static table of the 2011–2012 AIMSweb Default Cut Scores for your easy reference.

866.313.6194 | AIMSweb.com

AIMSweb Default Cut Scores

Two default cut scores are provided at each grade and season. The higher cut score separates Tiers 1 and 2, and can be considered the target. This cut score is at the 35th percentile for the Early Literacy and Early Numeracy measures and at the 45th percentile for all other measures. The lower cut score divides Tiers 2 and 3, and is at the 15th percentile for all measures.

Early Literacy																
	Grade K								Grade 1							
	LNF		LSF		PSF		NWF		LNF		LSF		PSF		NWF	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	3	13	0	2	0	2			30	40	16	25	21	35	17	27
Winter	24	38	9	20	6	18	8	19	35	49	28	40	35	45	34	45
Spring	34	46	23	33	25	41	22	33	41	56	34	46	40	49	43	57

Early Numeracy																
	Grade K								Grade 1							
	OCM		NIM		QDM		MNM		OCM		NIM		QDM		MNM	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	17	30	8	22	2	7	0	2	50	65	22	36	9	18	5	9
Winter	39	57	30	45	8	16	4	9	66	79	44	55	21	28	12	16
Spring	56	70	44	55	15	25	8	13	75	87	49	60	26	32	13	18

MIDE																
	Grade K								Grade 1							
	M-LNF		M-LSF		M-SRF		M-SSF		M-LNF		M-LSF		M-SRF		M-SSF	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	0	3	0	3			0	17	14	30	9	21	7	28	21	40
Winter	6	22	6	18	1	12	21	41			18	36	32	67	35	51
Spring	19	37	15	29	10	31	32	49			24	43	54	98	42	57

Spelling				
	Grade 1		Grade 2	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	15	32	31	47
Winter	34	42	39	54
Spring	37	46	51	61
	Grade 3		Grade 4	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	55	83	62	92
Winter	67	92	84	107
Spring	80	100	85	108
	Grade 5		Grade 6	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	82	117	93	123
Winter	97	120	97	121
Spring	101	123	110	129
	Grade 7		Grade 8	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	78	105	111	131
Winter	100	124	105	126
Spring	107	130	108	126

Mathematics								
	Grade 1				Grade 2			
	M-CAP		M-COMP		M-CAP		M-COMP	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall			2	7	2	5	8	15
Winter			14	26	6	13	18	30
Spring			25	37	8	18	26	38
	Grade 3				Grade 4			
	M-CAP		M-COMP		M-CAP		M-COMP	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	2	5	10	20	6	13	13	23
Winter	5	10	23	40	8	15	26	42
Spring	8	14	31	53	8	18	34	55
	Grade 5				Grade 6			
	M-CAP		M-COMP		M-CAP		M-COMP	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	4	8	6	12	7	11	8	16
Winter	6	10	10	20	10	15	13	24
Spring	6	13	16	30	12	17	17	31
	Grade 7				Grade 8			
	M-CAP		M-COMP		M-CAP		M-COMP	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	3	10	9	17	5	8	7	17
Winter	9	13	12	25	7	11	11	21
Spring	9	17	14	29	7	14	13	26

Reading (R-CBM and Maze)								
	Grade 1				Grade 2			
	R-CBM		Maze		R-CBM		Maze	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall			0	1	21	55	1	4
Winter	14	30	1	3	47	80	4	9
Spring	24	53	3	7	61	92	8	14
	Grade 3				Grade 4			
	R-CBM		Maze		R-CBM		Maze	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	42	77	6	11	67	105	7	12
Winter	64	105	8	14	86	120	12	19
Spring	83	119	9	15	102	136	12	19
	Grade 5				Grade 6			
	R-CBM		Maze		R-CBM		Maze	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	78	114	10	16	103	136	13	21
Winter	97	129	13	21	111	149	19	27
Spring	106	143	17	25	128	161	18	27
	Grade 7				Grade 8			
	R-CBM		Maze		R-CBM		Maze	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	94	136	15	22	112	138	15	23
Winter	109	150	17	25	122	151	14	21
Spring	130	171	20	29	130	161	19	27

Reading (Spanish)				
	Grade 1		Grade 2	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	1	8	19	40
Winter	9	24	36	62
Spring	21	45	50	74
	Grade 3		Grade 4	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	38	58	46	70
Winter	51	74	57	84
Spring	58	84	65	93
	Grade 5		Grade 6	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	50	76	50	83
Winter	59	87	60	92
Spring	67	96	62	98
	Grade 7		Grade 8	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	52	93	45	90
Winter	55	100	65	112
Spring	50	103	43	106

Reading (R-Path)				
	Grade 1		Grade 2	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	1	10	15	38
Winter	7	19	18	50
Spring	14	38	22	64
	Grade 3		Grade 4	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	16	57	16	78
Winter	25	80	23	93
Spring	26	94	24	105
	Grade 5		Grade 6	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	20	97	25	103
Winter	26	112	30	121
Spring	24	106	32	134
	Grade 7		Grade 8	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	18	110	57	121
Winter	27	114	18	70
Spring	31	124	71	133

Writing (CWS)				
	Grade 1		Grade 2	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	0	1	2	7
Winter	1	4	6	14
Spring	3	9	9	19
	Grade 3		Grade 4	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	7	16	13	25
Winter	11	22	18	32
Spring	16	28	22	36
	Grade 5		Grade 6	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	18	32	19	35
Winter	22	37	29	44
Spring	27	43	33	51
	Grade 7		Grade 8	
	Tier 2	Tier 1	Tier 2	Tier 1
Fall	28	45	28	47
Winter	34	49	36	54
Spring	35	51	39	54

Writing (WSC and TWW)								
	Grade 1				Grade 2			
	WSC		TWW		WSC		TWW	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	1	4	2	6	3	9	7	14
Winter	3	9	6	12	8	18	14	24
Spring	13	23	11	19	13	23	19	31
	Grade 3				Grade 4			
	WSC		TWW		WSC		TWW	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	9	19	16	25	16	28	21	33
Winter	14	25	20	32	20	33	26	39
Spring	19	31	25	37	20	33	29	43
	Grade 5				Grade 6			
	WSC		TWW		WSC		TWW	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	21	34	25	39	24	41	29	44
Winter	24	38	31	46	34	48	37	52
Spring	31	47	35	49	40	52	40	57
	Grade 7				Grade 8			
	WSC		TWW		WSC		TWW	
	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1	Tier 2	Tier 1
Fall	31	49	36	51	32	53	44	61
Winter	34	49	42	58	40	57	43	57
Spring	46	60	42	58	52	69	52	67