

Table 1: Summary of Differential Item Functioning (DIF) Analyses Results

The analysis below shows the summary of DIF Analyses Results conducted in the 2018-2019 program year for the date range of September 1, 2013 through August 31, 2018. DIF analyses are generated for items on MTEL test forms that are taken by at least 100 candidates in both the focal and reference groups. Refer to the Technical Manual: DIF Analyses for a full description of test quality review, including the DIF analysis and review process.

Field Name	Total Comparisons Made	*Number of Items Identified for C-Level DIF	Comparison Group
Early Childhood (MA002)	118	7 2	M/F W/B
History (MA006)	175	7 1	M/F W/H
English (MA007)	191	4	M/F
Mathematics (MA009)	101	2 1	M/F W/H
General Science (MA010)	72	9	M/F
Physics (MA011)	77	3	M/F
Chemistry (MA012)	70	1	M/F
Biology (MA013)	74	2	M/F
Music (MA016)	83	3	M/F
Visual Art (MA017)	58	3	M/F
Business (MA019)	75	5	M/F
Health/Family and Consumer Sciences (MA021)	73	3	M/F
Physical Education (MA022)	71	1	M/F
Spanish (MA028)	61	1	M/F
Mathematics (Middle School) (MA047)	71	4	W/B
Middle School Humanities (MA050)	60	6	M/F
Mathematics/Science (Middle School) (MA051)	55	2	M/F
Mathematics (Elementary) (MA053)	53	2	M/F
English as a Second Language (MA054)	167	4 2 1	M/F W/B W/H
Sheltered English Immersion (MA056)	90	4	M/F
Foundations of Reading (MA090)	180	6	M/F

Field Name	Total Comparisons Made	*Number of Items Identified for C-Level DIF	Comparison Group
Communication and Literacy Skills - Reading Subtest (MA101)	258	11 3 4	M/F W/B W/H
Communication and Literacy Skills - Writing Subtest (MA201)	181	6 2 1	M/F W/B W/H
General Curriculum Test - Multiple Subjects (MA103)	124	8 1	M/F W/B
General Curriculum Test - Mathematics (MA203)	99	2 1	M/F W/H
Total	2637	130	

*Note. Values represent an instance of an item flagging at the C level for DIF. One item may flag on more than one test form.

Table 2: Differential Item Analysis (DIF) Outcomes

Following review by the Department items identified by the DIF analysis based on ethnicity were forwarded to the MTEL Bias Review Committee for review. Table 2 summarizes the outcome of the review.

Note that items identified with the 2018-2019 DIF analysis that were previously identified and reviewed by a Bias Review Committee as part of previous administration years' DIF activities were not included in the 2018-2019 Bias review.

FIELD	Number of Items Reviewed by the MTEL Bias Review Committee Identified by Comparison Group		N of Items Deleted	
	White/Black	White/Hispanic	Potential Bias Identified	Other*
(MA002) Early Childhood	1		-	-
(06) History		1	-	-
(09) Mathematics		1	-	-
(047) Middle School Mathematics	4		-	-
(MA054) English as a Second Language	2	1	-	-
(101) Communication and Literacy Skills – Reading subtest	1	3	-	-
(201) Communication and Literacy Skills - Writing subtest	1	1	-	-
(103) General Curriculum Multi-subject subtest	1		-	-
(203) General Curriculum – Mathematics subtest		1	-	-

*Items may have been deleted due to reasons other than potential bias, including topicality.