Appendix G

DIFFERENTIAL ITEM FUNCTIONING RESULTS

Table G-1. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – English Language Arts

			Item	Number -		Number "Lov	<i>/</i> "		Number "I	
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	36	0	0	0	0	0	0
	Male	Female	OR	5	0	0	0	0	0	0
	No Disability	Disability	MC	36	4	4	0	0	0	0
	No Disability	Disability	OR	5	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	36	2	2	0	1	1	0
3	Not LEPFLEP	LEPFLEP	OR	5	0	0	0	0	0	0
3	Not Low-Income	Low-Income	MC	36	2	2	0	0	0	0
	Not Low-Income	Low-Income	OR	5	0	0	0	0	0	0
	White	African American	MC	36	4	4	0	0	0	0
	White	African American	OR	5	0	0	0	0	0	0
	White	Hispanic	MC	36	2	2	0	0	0	0
	White	Hispanic	OR	5	0	0	0	0	0	0
	Male	Female	MC	36	3	3	0	0	0	0
	Male	Female	OR	6	0	0	0	0	0	0
	No Disability	Disability	MC	36	0	0	0	0	0	0
	No Disability	Disability	OR	6	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	36	7	7	0	1	1	0
4	Not LEPFLEP	LEPFLEP	OR	6	0	0	0	0	0	0
4	Not Low-Income	Low-Income	MC	36	3	3	0	0	0	0
	Not Low-Income	Low-Income	OR	6	0	0	0	0	0	0
	White	African American	MC	36	5	5	0	0	0	0
	White	African American	OR	6	0	0	0	0	0	0
	White	Hispanic	MC	36	5	5	0	1	1	0
	White	Hispanic	OR	6	0	0	0	0	0	0
	Male	Female	MC	36	3	3	0	0	0	0
	Male	Female	OR	4	1	0	1	0	0	0
	No Disability	Disability	MC	36	0	0	0	0	0	0
	No Disability	Disability	OR	4	0	0	0	0	0	0
5	Not LEPFLEP	LEPFLEP	MC	36	3	3	0	1	1	0
5	Not LEPFLEP	LEPFLEP	OR	4	0	0	0	0	0	0
	Not Low-Income	Low-Income	MC	36	2	2	0	0	0	0
	Not Low-Income	Low-Income	OR	4	0	0	0	0	0	0
	White	African American	MC	36	3	3	0	0	0	0
	White	African American	OR	4	0	0	0	0	0	0

			Item	Number -		Number "Low	<i>(</i> "		Number "H	High"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
5	White	Hispanic	MC	36	4	4	0	1	1	0
	White	Hispanic	OR	4	0	0	0	0	0	0
	Male	Female	MC	36	3	2	1	0	0	0
	Male	Female	OR	4	1	0	1	0	0	0
	No Disability	Disability	MC	36	3	3	0	0	0	0
	No Disability	Disability	OR	4	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	36	6	6	0	1	1	0
6	Not LEPFLEP	LEPFLEP	OR	4	0	0	0	0	0	0
O	Not Low-Income	Low-Income	MC	36	2	2	0	0	0	0
	Not Low-Income	Low-Income	OR	4	0	0	0	0	0	0
	White	African American	MC	36	4	4	0	0	0	0
	White	African American	OR	4	0	0	0	0	0	0
	White	Hispanic	MC	36	7	7	0	0	0	0
	White	Hispanic	OR	4	0	0	0	0	0	0
	Male	Female	MC	36	7	6	1	3	3	0
	Male	Female	OR	6	0	0	0	0	0	0
	No Disability	Disability	MC	36	1	1	0	0	0	0
	No Disability	Disability	OR	6	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	36	9	9	0	1	1	0
7	Not LEPFLEP	LEPFLEP	OR	6	0	0	0	0	0	0
,	Not Low-Income	Low-Income	MC	36	4	4	0	0	0	0
	Not Low-Income	Low-Income	OR	6	0	0	0	0	0	0
	White	African American	MC	36	6	5	1	0	0	0
	White	African American	OR	6	0	0	0	0	0	0
	White	Hispanic	MC	36	6	6	0	0	0	0
	White	Hispanic	OR	6	0	0	0	0	0	0
	Male	Female	MC	36	4	4	0	2	2	0
	Male	Female	OR	4	2	0	2	0	0	0
	No Disability	Disability	MC	36	3	3	0	0	0	0
0	No Disability	Disability	OR	4	0	0	0	0	0	0
8	Not LEPFLEP	LEPFLÉP	MC	36	7	7	0	4	4	0
	Not LEPFLEP	LEPFLEP	OR	4	0	0	0	0	0	0
	Not Low-Income	Low-Income	MC	36	3	3	0	0	0	0
	Not Low-Income	Low-Income	OR	4	0	0	0	0	0	0

			Item	Number -		Number "Low	<i>(</i> "		Number "H	ligh"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	White	African American	MC	36	10	10	0	0	0	0
8	White	African American	OR	4	0	0	0	0	0	0
0	White	Hispanic	MC	36	7	7	0	0	0	0
	White	Hispanic	OR	4	0	0	0	0	0	0
	Male	Female	MC	36	8	7	1	1	1	0
	Male	Female	OR	6	1	0	1	0	0	0
	No Disability	Disability	MC	36	1	1	0	0	0	0
	No Disability	Disability	OR	6	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	36	11	10	1	3	3	0
10	Not LEPFLEP	LEPFLEP	OR	6	1	0	1	0	0	0
10	Not Low-Income	Low-Income	MC	36	5	5	0	0	0	0
	Not Low-Income	Low-Income	OR	6	0	0	0	0	0	0
	White	African American	MC	36	9	8	1	2	2	0
	White	African American	OR	6	1	0	1	0	0	0
	White	Hispanic	MC	36	8	7	1	0	0	0
	White	Hispanic	OR	6	0	0	0	0	0	0

Table G-2. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – Mathematics

			Item	Number -		Number "Low	<i>,</i> "		Number "F	ligh"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	26	0	0	0	0	0	0
	Male	Female	OR	10	0	0	0	0	0	0
	No Disability	Disability	MC	26	1	1	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	26	3	2	1	0	0	0
3	Not LEPFLEP	LEPFLEP	OR	10	2	2	0	0	0	0
3	Not Low-Income	Low-Income	MC	26	1	1	0	0	0	0
	Not Low-Income	Low-Income	OR	10	1	1	0	0	0	0
	White	African American	MC	26	3	3	0	0	0	0
	White	African American	OR	10	3	3	0	0	0	0
	White	Hispanic	MC	26	3	2	1	0	0	0
	White	Hispanic	OR	10	2	2	0	0	0	0

			Item	Number -		Number "Low	<i>(</i> "		Number "H	High"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	32	0	0	0	0	0	0
	Male	Female	OR	10	1	1	0	0	0	0
	No Disability	Disability	MC	32	2	2	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	32	5	4	1	2	2	0
4	Not LEPFLEP	LEPFLEP	OR	10	1	0	1	0	0	0
4	Not Low-Income	Low-Income	MC	32	2	2	0	0	0	0
	Not Low-Income	Low-Income	OR	10	0	0	0	0	0	0
	White	African American	MC	32	2	1	1	2	2	0
	White	African American	OR	10	2	2	0	0	0	0
	White	Hispanic	MC	32	4	4	0	1	1	0
	White	Hispanic	OR	10	0	0	0	0	0	0
,	Male	Female	MC	32	1	1	0	0	0	0
	Male	Female	OR	10	1	1	0	0	0	0
	No Disability	Disability	MC	32	0	0	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	32	3	3	0	0	0	0
5	Not LEPFLEP	LEPFLEP	OR	10	2	2	0	0	0	0
5	Not Low-Income	Low-Income	MC	32	0	0	0	0	0	0
	Not Low-Income	Low-Income	OR	10	0	0	0	0	0	0
	White	African American	MC	32	2	2	0	0	0	0
	White	African American	OR	10	3	3	0	0	0	0
	White	Hispanic	MC	32	0	0	0	0	0	0
	White	Hispanic	OR	10	0	0	0	0	0	0
	Male	Female	MC	32	6	5	1	0	0	0
	Male	Female	OR	10	1	0	1	0	0	0
	No Disability	Disability	MC	32	0	0	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	32	2	2	0	0	0	0
6	Not LEPFLEP	LEPFLEP	OR	10	0	0	0	0	0	0
	Not Low-Income	Low-Income	MC	32	0	0	0	0	0	0
	Not Low-Income	Low-Income	OR	10	0	0	0	0	0	0
	White	African American	MC	32	3	2	1	0	0	0
	White	African American	OR	10	1	1	0	0	0	0
	White	Hispanic	MC	32	1	1	0	0	0	0

			Item	Number -		Number "Low	<i>(</i> "		Number "H	High"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
6	White	Hispanic	OR	10	0	0	0	0	0	0
	Male	Female	MC	32	6	6	0	0	0	0
	Male	Female	OR	10	1	0	1	0	0	0
	No Disability	Disability	MC	32	0	0	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	32	3	2	1	2	2	0
7	Not LEPFLEP	LEPFLEP	OR	10	1	1	0	0	0	0
,	Not Low-Income	Low-Income	MC	32	1	1	0	0	0	0
	Not Low-Income	Low-Income	OR	10	0	0	0	0	0	0
	White	African American	MC	32	4	2	2	1	1	0
	White	African American	OR	10	0	0	0	0	0	0
	White	Hispanic	MC	32	2	2	0	0	0	0
	White	Hispanic	OR	10	0	0	0	0	0	0
	Male	Female	MC	32	4	4	0	0	0	0
	Male	Female	OR	10	1	0	1	0	0	0
	No Disability	Disability	MC	32	1	1	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	32	8	7	1	1	1	0
8	Not LEPFLEP	LEPFLEP	OR	10	0	0	0	0	0	0
0	Not Low-Income	Low-Income	MC	32	1	1	0	0	0	0
	Not Low-Income	Low-Income	OR	10	0	0	0	0	0	0
	White	African American	MC	32	3	3	0	0	0	0
	White	African American	OR	10	1	1	0	0	0	0
	White	Hispanic	MC	32	1	1	0	0	0	0
	White	Hispanic	OR	10	0	0	0	0	0	0
	Male	Female	MC	32	3	2	1	0	0	0
	Male	Female	OR	10	0	0	0	0	0	0
	No Disability	Disability	MC	32	0	0	0	0	0	0
	No Disability	Disability	OR	10	0	0	0	0	0	0
10	Not LEPFLEP	LEPFLEP	MC	32	6	1	5	2	2	0
	Not LEPFLEP	LEPFLEP	OR	10	2	2	0	0	0	0
	Not Low-Income	Low-Income	MC	32	0	0	0	0	0	0
	Not Low-Income	Low-Income	OR	10	0	0	0	0	0	0
	White	African American	MC	32	2	2	0	1	1	0

			Item	Number -		Number "Low	<i>,</i> "		Number "H	ligh"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	White	African American	OR	10	0	0	0	0	0	0
10	White	Hispanic	MC	32	2	2	0	0	0	0
	White	Hispanic	OR	10	0	0	0	0	0	0

Table G-3. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – Science and Technology/Engineering

			Item	Number -		Number "Low	<i>(</i> "		Number "H	ligh"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	38	1	1	0	1	1	0
	Male	Female	OR	4	1	0	1	0	0	0
	No Disability	Disability	MC	38	0	0	0	0	0	0
	No Disability	Disability	OR	4	1	1	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	38	8	8	0	0	0	0
5	Not LEPFLEP	LEPFLEP	OR	4	1	1	0	0	0	0
3	Not Low-Income	Low-Income	MC	38	4	4	0	0	0	0
	Not Low-Income	Low-Income	OR	4	1	1	0	0	0	0
	White	African American	MC	38	7	7	0	0	0	0
	White	African American	OR	4	0	0	0	0	0	0
	White	Hispanic	MC	38	9	8	1	0	0	0
	White	Hispanic	OR	4	1	1	0	0	0	0
	Male	Female	MC	38	3	3	0	1	1	0
	Male	Female	OR	4	0	0	0	0	0	0
	No Disability	Disability	MC	38	3	2	1	0	0	0
	No Disability	Disability	OR	4	2	2	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	38	8	8	0	1	1	0
8	Not LEPFLEP	LEPFLEP	OR	4	0	0	0	0	0	0
O	Not Low-Income	Low-Income	MC	38	2	2	0	0	0	0
	Not Low-Income	Low-Income	OR	4	0	0	0	0	0	0
	White	African American	MC	38	9	9	0	0	0	0
	White	African American	OR	4	0	0	0	0	0	0
	White	Hispanic	MC	38	5	5	0	0	0	0
	White	Hispanic	OR	4	0	0	0	0	0	0

Table G-4. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Biology

'			Item	Number -		Number "Low	<i>'</i> "		Number "H	ligh"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	40	3	2	1	0	0	0
	Male	Female	OR	5	0	0	0	0	0	0
	No Disability	Disability	MC	40	0	0	0	0	0	0
	No Disability	Disability	OR	5	1	1	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	40	5	5	0	5	5	0
HS	Not LEPFLEP	LEPFLEP	OR	5	1	1	0	0	0	0
по	Not Low-Income	Low-Income	MC	40	0	0	0	0	0	0
	Not Low-Income	Low-Income	OR	5	0	0	0	0	0	0
	White	African American	MC	40	4	4	0	0	0	0
	White	African American	OR	5	0	0	0	0	0	0
	White	Hispanic	MC	40	4	4	0	0	0	0
	White	Hispanic	OR	5	0	0	0	0	0	0

Table G-5. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Chemistry

			Item	Number -		Number "Low	<i>(</i> "		Number "H	ligh"
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	40	6	5	1	0	0	0
	Male	Female	OR	5	1	0	1	0	0	0
	No Disability	Disability	MC	40	16	12	4	4	2	2
	No Disability	Disability	OR	5	1	1	0	1	1	0
	Not LEPFLEP	LEPFLEP	MC	40	18	5	13	7	6	1
HS	Not LEPFLEP	LEPFLEP	OR	5	0	0	0	1	1	0
110	Not Low-Income	Low-Income	MC	40	8	6	2	3	2	1
	Not Low-Income	Low-Income	OR	5	0	0	0	0	0	0
	White	African American	MC	40	11	7	4	8	4	4
	White	African American	OR	5	2	2	0	0	0	0
	White	Hispanic	MC	40	18	10	8	2	1	1
	White	Hispanic	OR	5	1	1	0	0	0	0

Table G-6. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Introductory Physics

			ltom	Number -		Number "Low	<i>(</i> "		Number "H	ligh"
Grade	Reference Group	Focal Group	Item Type	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal
	Male	Female	MC	40	10	6	4	0	0	0
	Male	Female	OR	5	0	0	0	0	0	0
	No Disability	Disability	MC	40	4	4	0	0	0	0
	No Disability	Disability	OR	5	0	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	MC	40	13	7	6	1	1	0
HS	Not LEPFLEP	LEPFLEP	OR	5	2	2	0	0	0	0
по	Not Low-Income	Low-Income	MC	40	1	1	0	0	0	0
	Not Low-Income	Low-Income	OR	5	1	1	0	0	0	0
	White	African American	MC	40	10	8	2	1	1	0
	White	African American	OR	5	1	1	0	0	0	0
	White	Hispanic	MC	40	5	5	0	0	0	0
	White	Hispanic	OR	5	1	1	0	0	0	0

Table G-7. 2010 MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Technology/Engineering

			Item	Number -		Number "Low	<i>'</i> "		Number "High"		
Grade	Reference Group	Focal Group	Туре	of Items	Total	Favoring Reference	Favoring Focal	Total	Favoring Reference	Favoring Focal	
	Male	Female	MC	40	12	7	5	3	3	0	
	Male	Female	OR	5	0	0	0	0	0	0	
	No Disability	Disability	MC	40	7	6	1	1	1	0	
	No Disability	Disability	OR	5	0	0	0	0	0	0	
	Not LEPFLEP	LEPFLEP	MC	40	11	8	3	16	11	5	
HS	Not LEPFLEP	LEPFLEP	OR	5	1	0	1	0	0	0	
110	Not Low-Income	Low-Income	MC	40	1	1	0	0	0	0	
	Not Low-Income	Low-Income	OR	5	0	0	0	0	0	0	
	White	African American	MC	40	12	7	5	6	4	2	
	White	African American	OR	5	1	1	0	1	1	0	
	White	Hispanic	MC	40	15	12	3	3	3	0	
	White	Hispanic	OR	5	0	0	0	0	0	0	