

APPENDIX G

DIFFERENTIAL ITEM FUNCTIONING RESULTS

Table G-1. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – ELA Grade 10

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	36	3	3	0	0	0	0
		OR	6	2	0	2	0	0	0
Students without Disabilities	Students with Disabilities	MC	36	0	0	0	0	0	0
		OR	6	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	36	12	12	0	6	6	0
		OR	6	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	36	1	1	0	0	0	0
		OR	6	0	0	0	0	0	0
White	African American	MC	36	9	9	0	1	1	0
		OR	6	0	0	0	0	0	0
	Hispanic	MC	36	6	6	0	2	2	0
		OR	6	0	0	0	0	0	0

Table G-2. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – Mathematics Grade 10

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	32	3	3	0	0	0	0
		OR	10	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	32	0	0	0	0	0	0
		OR	10	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	32	2	0	2	0	0	0
		OR	10	0	0	0	1	1	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	32	0	0	0	0	0	0
		OR	10	0	0	0	0	0	0
White	African American	MC	32	3	2	1	0	0	0
		OR	10	1	1	0	0	0	0
	Hispanic	MC	32	0	0	0	0	0	0
		OR	10	1	1	0	0	0	0

Table G-3. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Biology

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	1	0	1	1	1	0
		OR	5	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	40	0	0	0	0	0	0
		OR	5	1	1	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	40	4	3	1	1	1	0
		OR	5	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
White	African American	MC	40	3	2	1	0	0	0
		OR	5	1	1	0	0	0	0
	Hispanic	MC	40	2	1	1	0	0	0
		OR	5	0	0	0	0	0	0

Table G-4. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Chemistry

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	14	8	6	1	0	1
		OR	5	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
White	African American	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
	Hispanic	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0

Table G-5. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Introductory Physics

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	4	2	2	0	0	0
		OR	5	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	40	3	3	0	0	0	0
		OR	5	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	40	5	3	2	0	0	0
		OR	5	1	1	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
White	African American	MC	40	4	4	0	0	0	0
		OR	5	1	1	0	0	0	0
	Hispanic	MC	40	2	2	0	0	0	0
		OR	5	0	0	0	0	0	0

Table G-6. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Technology/Engineering

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	40	16	10	6	3	2	1
		OR	5	2	1	1	1	1	0
Not LEPFLEP	LEPFLEP	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	40	8	3	5	4	2	2
		OR	5	1	1	0	0	0	0
White	African American	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0
	Hispanic	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0

Table G-7. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – Science Grade 5

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	38	2	2	0	0	0	0
		OR	4	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	38	1	1	0	0	0	0
		OR	4	1	1	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	38	5	4	1	1	1	0
		OR	4	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	38	2	2	0	0	0	0
		OR	4	0	0	0	0	0	0
White	African American	MC	38	5	3	2	1	1	0
		OR	4	1	1	0	0	0	0
	Hispanic	MC	38	3	2	1	1	1	0
		OR	4	0	0	0	0	0	0

Table G-8. 2018 Legacy MCAS: Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – Science Grade 8

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	38	5	3	2	1	1	0
		OR	4	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	38	4	4	0	0	0	0
		OR	4	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	38	5	3	2	0	0	0
		OR	4	1	1	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	38	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0
White	African American	MC	38	5	4	1	0	0	0
		OR	4	1	1	0	0	0	0
	Hispanic	MC	38	3	2	1	0	0	0
		OR	4	0	0	0	0	0	0