APPENDIX H DIFFERENTIAL ITEM FUNCTIONING RESULTS

Table H-1. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF,
Overall and by Group Favored – ELA Grade 10

Group			N I I	I	Number "Low	,"	Number "High"		
Poforono	Facili	Item Type	Number of Items	Total	Favorii	ng	Total	Favoring	
Reference	Focal	Турс	Of Items	TOlai	Reference	Focal	TOlai	Reference	Focal
Male	Female	MC	36	8	8	0	0	0	0
iviale	i emale	OR	6	1	0	1	0	0	0
No Disability	Disability	MC	36	1	1	0	0	0	0
		OR	6	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	36	10	9	1	3	3	0
NOT LEFT LEF		OR	6	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	36	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	OR	6	0	0	0	0	0	0
	African American	MC	36	6	5	1	0	0	0
White	Amendan	OR	6	0	0	0	0	0	0
vvince	Hispanic	MC	36	6	5	1	0	0	0
	Hispanic	OR	6	0	0	0	0	0	0

Table H-2. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF,
Overall and by Group Favored – Mathematics Grade 10

Group				Number "Low"			Number "High"			
Reference	Facel	Item	Number of Items	Total	Favorii	ng	Total	Favorii	ng	
Reference	Focal	Type	OI ILEITIS	TOlai	Reference	Focal	TOlai	Reference	Focal	
Male	Female	MC	32	1	1	0	0	0	0	
waie	remale	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	
Not LEPFLEP	LEPFLEP	МС	32	5	2	3	2	2	0	
NOI LEFFLEF		OR	10	1	1	0	0	0	0	
Not Economically Disadventaged	Economically Disadvantaged	MC	32	0	0	0	0	0	0	
Not Economically Disadvantaged	Economically Disadvantaged	OR	10	0	0	0	0	0	0	
	African American	MC	32	4	2	2	0	0	0	
White	Amenican	OR	10	0	0	0	0	0	0	
	Hispanic	MC	32	2	1	1	0	0	0	
		OR	10	0	0	0	0	0	0	

Table H-3. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – Science

	Group			NIls c :	1	lumber "Low	,"	Number "High"			
Grade	Deference	F I	Item	Number of Items	Total	Favoring		Total	Favorii	ng	
	Reference	Focal	Туре	OI ILEITIS	Total -	Reference	Focal	Total	Reference	Focal	
	Male	Female	MC	38	6	5	1	1	0	1	
	Iviale	i emale	OR	4	1	0	1	0	0	0	
	Not LEPFLEP	LEPFLEP	MC	38	1	1	0	0	0	0	
			OR	4	0	0	0	0	0	0	
5	5 Not Economically Disadvantaged	Economically Disadvantaged	MC	38	1	1	0	0	0	0	
3		Economically Disadvantaged	OR	4	0	0	0	0	0	0	
		African American	MC	38	6	5	1	1	1	0	
	White		OR	4	0	0	0	0	0	0	
	vviite	Hispanic	MC	38	3	2	1	0	0	0	
			OR	4	1	1	0	0	0	0	
	Male	Female	MC	38	4	3	1	1	1	0	
	- Iviaio		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	
8	Not Economically Disadvantaged	Economically Disadvantaged	MC	38	0	0	0	0	0	0	
O		Economically Disactantaged	OR	4	0	0	0	0	0	0	
		African American	MC	38	2	2	0	0	0	0	
	White	Alloan Allondan	OR	4	1	1	0	0	0	0	
	VVIIICO	Hispanic	MC	38	2	2	0	0	0	0	
		Поратис	OR	4	1	1	0	0	0	0	

Table H-4. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Biology

	•		_		0,					
Group					Number "Low	,"	Number "High"			
Reference		Item Type	Number of Items	Total	Favorii	ng	Total	Favorii	ng	
Reierence	Focal	Турс	Of Items	TOlai	Reference	Focal	TOtal	Reference	Focal	
Male	Female	MC	40	2	2	0	0	0	0	
iviale	i emale	OR	5	1	0	1	0	0	0	
No Disability	Disability	MC	40	1	1	0	0	0	0	
NO DISABility		OR	5	1	1	0	0	0	0	
Not LEPFLEP	LEPFLEP	MC	40	7	4	3	1	1	0	
NOT LEFFLEF		OR	5	0	0	0	0	0	0	
Not Economically Disadvantaged	Face and contained	MC	40	0	0	0	0	0	0	
Not Economically Disadvantaged	Economically Disadvantaged	OR	5	0	0	0	0	0	0	
	African American	MC	40	2	2	0	0	0	0	
White	Amenican	OR	5	0	0	0	0	0	0	
	Hispania	MC	40	2	1	1	0	0	0	
	Hispanic	OR	5	0	0	0	0	0	0	

Table H-5. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Chemistry

Group			NI	ı	Number "Low	, "	Number "High"		
Reference	Focal	Item Type	Number of Items	Total	Favorii	ng	Total	Favorii	ng
Neierence	Focal	Турс	Of Items	TOtal	Reference	Focal	TOtal	Reference	Focal
Male	Female	MC	40	8	5	3	4	3	1
Iviale	remale	OR	5	1	0	1	0	0	0
No Disability	Disability	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
NOT LEFFLEF		OR	5	0	0	0	0	0	0
Not Economically Disadvantaged	Face and a seller Discontinuous de	MC	40	2	2	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	OR	5	0	0	0	0	0	0
	African American	MC	40	13	9	4	3	3	0
White	Amean Amendan	OR	5	0	0	0	0	0	0
writte	Hispanic	MC	40	0	0	0	0	0	0
		OR	5	0	0	0	0	0	0

Table H-6. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Introductory Physics

	, ,		<i></i>							
Group			NII	Number "Low"			Number "High"			
Deference	Facal	Item Type	Number of Items	Total	Favorii	ng	Total	Favorii	ng	
Reference	Focal	Турс	Of Items	TOlai	Reference	Focal	Total	Reference	Focal	
Male	Female	MC	40	9	6	3	0	0	0	
Wale	i emale	OR	5	0	0	0	0	0	0	
No Disability	Disability	MC	40	1	1	0	0	0	0	
		OR	5	0	0	0	0	0	0	
Not LEPFLEP	LEPFLEP	MC	40	4	3	1	0	0	0	
NOI LEFFLEF		OR	5	0	0	0	0	0	0	
Not Economically Disadvantaged	Face and solly Disadvantaged	MC	40	0	0	0	0	0	0	
Not Economically Disadvantaged	Economically Disadvantaged	OR	5	0	0	0	0	0	0	
	African American	MC	40	3	2	1	0	0	0	
White	Amenican	OR	5	1	1	0	0	0	0	
	Hispanic	MC	40	0	0	0	0	0	0	
		OR	5	0	0	0	0	0	0	

Table H-7. 2017 Legacy MCAS: Number of Items Classified as "Low" or "High" DIF, Overall and by Group Favored – High School Technology/Engineering

Group			NI	I	Number "Low	,"	Number "High"			
Reference	Focal	Item	Number of Items	Total	Favorii	ng	Total	Favorii	ng	
Reference	Focal	Туре	Of Items	TOtal	Reference	Focal	TOlai	Reference	Focal	
Male	Female	MC	40	10	8	2	1	1	0	
- Iviale	i emale	OR	5	1	0	1	0	0	0	
No Disability	Disability	MC	40	2	2	0	0	0	0	
No Disability		OR	5	0	0	0	0	0	0	
Not LEPFLEP	LEPFLEP	MC	40	11	9	2	9	9	0	
NOT LEFFLEF		OR	5	1	0	1	0	0	0	
Not Economically Disadvantaged	Face and a seller Disastronate and	MC	40	0	0	0	0	0	0	
Not Economically Disadvantaged	Economically Disadvantaged	OR	5	0	0	0	0	0	0	
	African American	MC	40	12	7	5	1	1	0	
White	Amendan	OR	5	0	0	0	0	0	0	
	Hispanic	MC	40	8	6	2	1	1	0	
		OR	5	0	0	0	0	0	0	