

APPENDIX K
DIFFERENTIAL ITEM FUNCTIONING RESULTS

Table K-1. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored—ELA

Grade	Group		Item Type	Number of Items	Total	Number “Low” Favoring			Number “High” Favoring		
	Reference	Focal				Reference	Focal	Total	Reference	Focal	
											Reference
3	Male	Female	MC	24	1	1	0	0	0	0	
			OR	6	1	0	1	0	0	0	
			WP	1	0	0	0	0	0	0	
	Not EL/FEL	EL/FEL	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
	Not Low Income	Low Income	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
	White	African American/Black	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
		Hispanic/Latino	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
	Students without Disabilities	Students with Disabilities	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
	4	Male	Female	MC	24	1	1	0	0	0	0
				OR	6	1	1	0	0	0	0
				WP	1	1	0	1	0	0	0
		Not EL/FEL	EL/FEL	MC	24	2	2	0	0	0	0
				OR	6	0	0	0	0	0	0
				WP	1	0	0	0	0	0	0
Not Low Income		Low Income	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
White		African American/Black	MC	24	1	1	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
		Hispanic/Latino	MC	24	1	1	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	
Students without Disabilities		Students with Disabilities	MC	24	0	0	0	0	0	0	
			OR	6	0	0	0	0	0	0	
			WP	1	0	0	0	0	0	0	

continued

Grade	Group		Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring	
	Reference	Focal				Reference	Focal	Total	Reference	Focal
5	Male	Female	MC	24	3	2	1	1	1	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Not EL/FEL	EL/FEL	MC	24	1	1	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Not Low Income	Low Income	MC	24	0	0	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	White	African American/Black	MC	24	1	1	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	White	Hispanic/Latino	MC	24	1	1	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	24	0	0	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
6	Male	Female	MC	24	3	3	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Not EL/FEL	EL/FEL	MC	24	3	3	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Not Low Income	Low Income	MC	24	1	1	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	White	African American/Black	MC	24	2	2	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	White	Hispanic/Latino	MC	24	2	2	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	24	0	0	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0

continued

Grade	Group		Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring	
	Reference	Focal				Reference	Focal	Total	Reference	Focal
7	Male	Female	MC	26	4	3	1	0	0	0
			OR	4	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Not EL/FEL	EL/FEL	MC	26	2	2	0	0	0	0
			OR	4	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Not Low Income	Low Income	MC	26	0	0	0	0	0	0
			OR	4	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	White	African American/Black	MC	26	1	1	0	0	0	0
			OR	4	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	26	0	0	0	0	0	0
			OR	4	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
	8	Male	Female	MC	24	2	2	0	0	0
OR				5	1	1	0	0	0	0
WP				2	0	0	0	0	0	0
Not EL/FEL		EL/FEL	MC	24	3	3	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
Not Low Income		Low Income	MC	24	0	0	0	0	0	0
			OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
White		African American/Black	MC	24	1	1	0	0	0	0
	OR		5	0	0	0	0	0	0	
	WP		2	0	0	0	0	0	0	
		Hispanic/Latino	MC	24	1	1	0	0	0	0
			OR	5	0	0	0	0	0	0

continued

Grade	Group		Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring	
	Reference	Focal				Reference	Focal	Total	Reference	Focal
8	White	Hispanic/Latino	WP	2	0	0	0	0	0	0
			MC	24	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	OR	5	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
			MC	21	1	1	0	0	0	0
10	Male	Female	OR	7	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
			MC	21	3	2	1	0	0	0
	Not EL/FEL	EL/FEL	OR	7	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
			MC	21	0	0	0	0	0	0
	Not Low Income	Low Income	OR	7	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
			MC	21	1	1	0	0	0	0
	White	African American/Black	OR	7	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
			MC	21	1	0	1	0	0	0
		Hispanic/Latino	OR	7	0	0	0	0	0	0
			WP	2	0	0	0	0	0	0
			MC	21	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	OR	7	0	0	0	0	0	0	
		WP	2	0	0	0	0	0	0	

Table K-2. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored—Mathematics

Grade	Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring			Number “High” Favoring	
						Reference	Focal	Total	Reference	Focal
3	Male	Female	MC	16	2	1	1	1	1	0
			OR	24	4	3	1	0	0	0
	Not EL/FEL	EL/FEL	MC	16	0	0	0	0	0	0
			OR	24	0	0	0	0	0	0
	Not Low Income	Low Income	MC	16	0	0	0	0	0	0
			OR	24	0	0	0	0	0	0
	White	African American/Black	MC	16	1	1	0	0	0	0
			OR	24	3	1	2	0	0	0
		Hispanic/Latino	MC	16	0	0	0	0	0	0
			OR	24	1	1	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	16	0	0	0	0	0	0
			OR	24	0	0	0	0	0	0
4	Male	Female	MC	11	1	0	1	0	0	0
			OR	29	3	2	1	0	0	0
	Not EL/FEL	EL/FEL	MC	11	0	0	0	0	0	0
			OR	29	0	0	0	0	0	0
	Not Low Income	Low Income	MC	11	0	0	0	0	0	0
			OR	29	0	0	0	0	0	0
	White	African American/Black	MC	11	2	1	1	0	0	0
			OR	29	3	2	1	0	0	0
		Hispanic/Latino	MC	11	1	0	1	0	0	0
			OR	29	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	11	0	0	0	0	0	0
			OR	29	1	0	1	0	0	0
5	Male	Female	MC	17	2	1	1	0	0	0
			OR	23	1	1	0	1	1	0
	Not EL/FEL	EL/FEL	MC	17	0	0	0	0	0	0
			OR	23	1	1	0	0	0	0
	Not Low Income	Low Income	MC	17	0	0	0	0	0	0
			OR	23	0	0	0	0	0	0
	White	African American/Black	MC	17	0	0	0	0	0	0
			OR	23	4	4	0	0	0	0
		Hispanic/Latino	MC	17	0	0	0	0	0	0
			OR	23	1	1	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	17	0	0	0	0	0	0
			OR	23	0	0	0	0	0	0

continued

Grade	Reference	Group Focal	Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring		
						Reference	Focal	Total	Reference	Focal	Total
6	Male	Female	MC	15	2	2	0	0	0	0	0
			OR	25	3	2	1	0	0	0	0
	Not EL/FEL	EL/FEL	MC	15	1	1	0	0	0	0	0
			OR	25	0	0	0	0	0	0	0
	Not Low Income	Low Income	MC	15	0	0	0	0	0	0	0
			OR	25	0	0	0	0	0	0	0
	White	African American/Black	MC	15	1	0	1	0	0	0	0
			OR	25	0	0	0	0	0	0	0
		Hispanic/Latino	MC	15	0	0	0	0	0	0	0
			OR	25	0	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	15	1	1	0	0	0	0	0
			OR	25	0	0	0	0	0	0	0
7	Male	Female	MC	19	5	3	2	0	0	0	0
			OR	21	1	1	0	0	0	0	0
	Not EL/FEL	EL/FEL	MC	19	0	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0	0
	Not Low Income	Low Income	MC	19	0	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0	0
	White	African American/Black	MC	19	1	1	0	0	0	0	0
			OR	21	0	0	0	0	0	0	0
		Hispanic/Latino	MC	19	1	1	0	0	0	0	0
			OR	21	0	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	19	1	1	0	0	0	0	0
			OR	21	0	0	0	0	0	0	0
8	Male	Female	MC	21	0	0	0	0	0	0	0
			OR	19	1	0	1	0	0	0	0
	Not EL/FEL	EL/FEL	MC	21	0	0	0	0	0	0	0
			OR	19	0	0	0	0	0	0	0
	Not Low Income	Low Income	MC	21	0	0	0	0	0	0	0
			OR	19	0	0	0	0	0	0	0
	White	African American/Black	MC	21	1	0	1	0	0	0	0
			OR	19	0	0	0	0	0	0	0
		Hispanic/Latino	MC	21	0	0	0	0	0	0	0
			OR	19	0	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	21	0	0	0	0	0	0	0
			OR	19	0	0	0	0	0	0	0

continued

Grade	Reference	Group Focal	Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring		
						Reference	Focal	Total	Reference	Focal	Total
10	Male	Female	MC	20	3	2	1	0	0	0	
			OR	22	1	0	1	0	0		
	Not EL/FEL	EL/FEL	MC	20	1	0	1	0	0	0	
			OR	22	1	0	1	0	0		
	Not Low Income	Low Income	MC	20	0	0	0	0	0	0	
			OR	22	0	0	0	0	0		
	White	African American/Black	MC	20	2	1	1	0	0	0	
			OR	22	0	0	0	0	0		
	Students without Disabilities	Students with Disabilities	MC	20	0	0	0	0	0	0	
			OR	22	0	0	0	0	0		

Table K-3. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored—STE

Grade	Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring		Number “High” Favoring		
						Reference	Focal	Total	Reference	Focal
5	Male	Female	MC	22	2	1	1	1	1	0
			OR	19	2	1	1	0	0	0
	Not EL/FEL	EL/FEL	MC	22	0	0	0	0	0	0
			OR	19	0	0	0	0	0	0
	Not Low Income	Low Income	MC	22	0	0	0	0	0	0
			OR	19	0	0	0	0	0	0
	White	African American/Black	MC	22	0	0	0	0	0	0
			OR	19	2	2	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	22	1	1	0	0	0	0
			OR	19	0	0	0	0	0	0
8	Male	Female	MC	20	3	3	0	0	0	0
			OR	21	5	3	2	0	0	0
	Not EL/FEL	EL/FEL	MC	20	0	0	0	0	0	0
			OR	21	2	2	0	0	0	0
	Not Low Income	Low Income	MC	20	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0
	White	African American/Black	MC	20	1	1	0	0	0	0
			OR	21	1	1	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	20	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0

Table K-4. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored—Biology

Grade	Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring		Total	Number “High” Favoring	
						Reference	Focal		Reference	Focal
HS	Male	Female	MC	21	0	0	0	0	0	0
			OR	21	1	1	0	0	0	0
	Not EL/FEL	EL/FEL	MC	21	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0
	Not Low Income	Low Income	MC	21	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0
	White	African American/Black	MC	21	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	21	0	0	0	0	0	0
			OR	21	0	0	0	0	0	0

Table K-5. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored—Introductory Physics

Grade	Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring		Total	Number “High” Favoring	
						Reference	Focal		Reference	Focal
HS	Male	Female	MC	28	5	3	2	0	0	0
			OR	14	1	1	0	0	0	0
	Not EL/FEL	EL/FEL	MC	28	3	1	2	0	0	0
			OR	14	0	0	0	0	0	0
	Not Low Income	Low Income	MC	28	0	0	0	0	0	0
			OR	14	0	0	0	0	0	0
	White	Hispanic/Latino	MC	28	1	0	1	0	0	0
			OR	14	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	MC	28	1	1	0	0	0	0
			OR	14	0	0	0	0	0	0