

APPENDIX I
DIFFERENTIAL ITEM FUNCTIONING RESULTS

Table I-1. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Biology

Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring		Number “High” Favoring		
					Reference	Focal	Total	Reference	Focal
Male	Female	MC	40	5	4	1	0	0	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	1	1	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	1	0	1	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 I-2. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Chemistry

Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring		Number “High” Favoring		
					Reference	Focal	Total	Reference	Focal
Male	Female	MC	32	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	32	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	32	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	32	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0
White	African American	MC	32	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0
	Hispanic	MC	32	0	0	0	0	0	0
		OR	4	0	0	0	0	0	0

Table I-3. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Introductory Physics

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

Table I-4. Number of Items Classified as “Low” or “High” DIF, Overall and by Group Favored – High School Technology/Engineering

Reference	Group Focal	Item Type	Number of Items	Total	Number “Low” Favoring		Total	Number “High” Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	11	6	5	8	7	1
		OR	5	1	0	1	0	0	0
Students without Disabilities	Students with Disabilities	MC	40	11	7	4	5	3	2
		OR	5	2	1	1	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	8	6	2	1	1	0
		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