

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**

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	3	3	0	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	6	4	2	2	2	0
		OR	5	2	2	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	2	1	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**

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	12	6	6	4	3	1
		OR	5	1	0	1	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 I-3. 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	6	6	0	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	7	6	1	0	0	0
		OR	5	1	1	0	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	40	1	1	0	0	0	0
		OR	5	0	0	0	0	0	0
White	African American	MC	40	2	1	1	1	1	0
		OR	5	0	0	0	0	0	0
	Hispanic	MC	40	2	2	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**

Group		Item Type	Number of Items	Number “Low”			Number “High”		
Reference	Focal			Total	Favoring		Total	Favoring	
					Reference	Focal		Reference	Focal
Male	Female	MC	40	11	9	2	1	1	0
		OR	5	0	0	0	0	0	0
Students without Disabilities	Students with Disabilities	MC	40	4	4	0	0	0	0
		OR	5	1	1	0	0	0	0
Not LEPFLEP	LEPFLEP	MC	40	13	6	7	11	9	2
		OR	5	2	1	1	0	0	0
Not Economically Disadvantaged	Economically Disadvantaged	MC	40	3	3	0	0	0	0
		OR	5	0	0	0	0	0	0
White	African American	MC	40	11	7	4	6	5	1
		OR	5	0	0	0	0	0	0
	Hispanic	MC	40	6	4	2	0	0	0
		OR	5	0	0	0	0	0	0