

**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		Total	Number “High” Favoring	
	Reference	Focal					Non-Remote Testers	Remote Testers		Non-Remote Testers	Remote Testers
3	Male	Female	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	28	2	1	1	0	0	0	0
	Not LEPFLEP	LEPFLEP	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	28	0	0	0	0	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	28	1	1	0	0	0	0	0
	White	African American	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	28	0	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	28	4	2	2	0	0	0	0
	4	Male	Female	CR	1	0	0	0	0	0	0
ES				1	0	0	0	0	0	0	0
SR				29	3	2	1	0	0	0	0
Not LEPFLEP		LEPFLEP	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	29	1	0	1	0	0	0	0
Not Economically Disadvantaged		Economically Disadvantaged	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	29	0	0	0	0	0	0	0
White		African American	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	29	2	1	1	0	0	0	0
Students without Disabilities		Students with Disabilities	CR	1	0	0	0	0	0	0	0
			ES	1	0	0	0	0	0	0	0
			SR	29	1	0	1	0	0	0	0

continued



Grade	Group		Item Type	Number of Items	Total	Number "Low" Favoring		Total	Number "High" Favoring		
	Reference	Focal				Non-Remote Testers	Remote Testers		Non-Remote Testers	Remote Testers	
5	Male	Female	ES	2	0	0	0	0	0	0	
			SR	29	4	3	1	0	0	0	
	Not LEPFLEP	LEPFLEP	ES	2	0	0	0	0	0	0	
			SR	29	1	0	1	0	0	0	
	Not Economically Disadvantaged	Economically Disadvantaged	ES	2	0	0	0	0	0	0	
			SR	29	1	1	0	0	0	0	
	White	African American	ES	2	0	0	0	0	0	0	
			SR	29	2	2	0	0	0	0	
	Students without Disabilities	Students with Disabilities	ES	2	0	0	0	0	0	0	
			SR	29	1	1	0	0	0	0	
	6	Male	Female	ES	2	0	0	0	0	0	0
				SR	30	4	3	1	0	0	0
Not LEPFLEP		LEPFLEP	ES	2	0	0	0	0	0	0	
			SR	30	2	2	0	0	0	0	
Not Economically Disadvantaged		Economically Disadvantaged	ES	2	0	0	0	0	0	0	
			SR	30	0	0	0	0	0	0	
White		African American	ES	2	0	0	0	0	0	0	
			SR	20	2	2	0	0	0	0	
Students without Disabilities		Students with Disabilities	ES	2	0	0	0	0	0	0	
			SR	30	0	0	0	0	0	0	
7		Male	Female	ES	2	0	0	0	0	0	0
				SR	30	2	2	0	1	1	0
	Not LEPFLEP	LEPFLEP	ES	2	0	0	0	0	0	0	
			SR	30	3	2	1	0	0	0	
	Not Economically Disadvantaged	Economically Disadvantaged	ES	2	0	0	0	0	0	0	
			SR	30	0	0	0	0	0	0	
	White	African American	ES	2	0	0	0	0	0	0	
			SR	30	1	0	1	0	0	0	
	Students without Disabilities	Students with Disabilities	ES	2	0	0	0	0	0	0	
			SR	30	1	0	1	0	0	0	

continued



Grade	Group		Item Type	Number of Items	Total	Number "Low" Favoring		Total	Number "High" Favoring	
	Reference	Focal				Non-Remote Testers	Remote Testers		Non-Remote Testers	Remote Testers
8	Male	Female	ES	2	0	0	0	0	0	0
			SR	30	4	2	2	0	0	0
	Not LEPFLEP	LEPFLEP	ES	2	0	0	0	0	0	0
			SR	30	2	1	1	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	ES	2	0	0	0	0	0	0
			SR	30	0	0	0	0	0	0
	White	African American	ES	2	0	0	0	0	0	0
			SR	30	1	0	1	0	0	0
	White	Hispanic	ES	2	0	0	0	0	0	0
			SR	30	1	0	1	0	0	0
	Students without Disabilities	Students with Disabilities	ES	2	0	0	0	0	0	0
			SR	30	0	0	0	0	0	0
10	Male	Female	ES	2	0	0	0	0	0	0
			SR	28	1	1	0	0	0	0
	Not LEPFLEP	LEPFLEP	ES	2	0	0	0	0	0	0
			SR	28	2	2	0	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	ES	2	0	0	0	0	0	0
			SR	28	0	0	0	0	0	0
	White	African American	ES	2	0	0	0	0	0	0
			SR	28	4	3	1	0	0	0
	White	Hispanic	ES	2	0	0	0	0	0	0
			SR	28	4	3	1	0	0	0
	Students without Disabilities	Students with Disabilities	ES	2	0	0	0	0	0	0
			SR	28	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		Item Type	Number of Items	Total	Number “Low” Favoring			Number “High” Favoring	
		Focal					Non-Remote Testers	Remote Testers	Total	Non-Remote Testers	Remote Testers
3	Male	Female	CR	4	0	0	0	0	0	0	0
			SA	10	0	0	0	0	0	0	0
			SR	33	2	2	0	0	0	0	0
	Not LEPFLEP	LEPFLEP	CR	4	0	0	0	0	0	0	0
			SA	10	0	0	0	0	0	0	0
			SR	33	0	0	0	0	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	CR	4	0	0	0	0	0	0	0
			SA	10	0	0	0	0	0	0	0
			SR	33	2	0	2	0	0	0	0
	White	African American	CR	4	0	0	0	0	0	0	0
			SA	10	1	1	0	0	0	0	0
			SR	33	5	1	4	0	0	0	0
		Hispanic	CR	4	0	0	0	0	0	0	0
			SA	10	0	0	0	0	0	0	0
			SR	33	4	0	4	0	0	0	0
	Students without Disabilities	Students with Disabilities	CR	4	0	0	0	0	0	0	0
			SA	10	0	0	0	0	0	0	0
			SR	33	2	1	1	0	0	0	0
4	Male	Female	CR	4	0	0	0	0	0	0	0
			SA	14	1	1	0	0	0	0	0
			SR	29	5	3	2	0	0	0	0
	Not LEPFLEP	LEPFLEP	CR	4	0	0	0	0	0	0	0
			SA	14	1	1	0	0	0	0	0
			SR	29	1	1	0	0	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	CR	4	0	0	0	0	0	0	0
			SA	14	0	0	0	0	0	0	0
			SR	29	0	0	0	0	0	0	0
	White	African American	CR	4	0	0	0	0	0	0	0
			SA	14	0	0	0	0	0	0	0
			SR	29	0	0	0	0	0	0	0
	White	Hispanic	CR	4	0	0	0	0	0	0	0
			SA	14	0	0	0	0	0	0	0
			SR	29	0	0	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	CR	4	0	0	0	0	0	0	0
			SA	14	0	0	0	0	0	0	0
			SR	29	0	0	0	0	0	0	0

continued



Grade	Reference	Group		Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring		
		Focal					Non-Remote Testers	Remote Testers	Total	Non-Remote Testers	Remote Testers	
5	Male	Female	CR	4	0	0	0	0	0	0	0	
			SA	10	1	1	0	0	0	0		
			SR	31	4	3	1	0	0	0		
	Not LEPFLEP	LEPFLEP	CR	4	0	0	0	0	0	0	0	
			SA	10	0	0	0	0	0	0	0	
			SR	31	0	0	0	0	0	0	0	
	Not Economically Disadvantaged	Economically Disadvantaged	CR	4	0	0	0	0	0	0	0	
			SA	10	0	0	0	0	0	0	0	
			SR	31	0	0	0	0	0	0	0	
	White	African American	CR	4	0	0	0	0	0	0	0	
			SA	10	0	0	0	0	0	0	0	
			SR	31	1	1	0	0	0	0	0	
	Students without Disabilities	Students with Disabilities	CR	4	0	0	0	0	0	0	0	
			SA	10	1	1	0	0	0	0	0	
			SR	31	1	0	1	0	0	0	0	
	6	Male	Female	CR	4	0	0	0	0	0	0	0
				SA	10	1	1	0	0	0	0	0
				SR	31	4	4	0	0	0	0	0
Not LEPFLEP		LEPFLEP	CR	4	0	0	0	0	0	0	0	
			SA	10	0	0	0	0	0	0	0	
			SR	31	1	1	0	0	0	0	0	
Not Economically Disadvantaged		Economically Disadvantaged	CR	4	0	0	0	0	0	0	0	
			SA	10	0	0	0	0	0	0	0	
			SR	31	0	0	0	0	0	0	0	
White		African American	CR	4	0	0	0	0	0	0	0	
			SA	10	1	1	0	0	0	0	0	
			SR	31	2	1	1	0	0	0	0	
Students without Disabilities		Students with Disabilities	CR	4	0	0	0	0	0	0	0	
			SA	10	0	0	0	0	0	0	0	
			SR	31	4	1	3	0	0	0	0	
7		Male	Female	CR	4	1	0	1	0	0	0	0
				SA	15	1	1	0	0	0	0	0
				SR	30	2	1	1	1	1	1	0

continued



Grade	Reference	Group		Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring		
		Focal					Non-Remote Testers	Remote Testers	Total	Non-Remote Testers	Remote Testers	
7	Not LEPFLEP	LEPFLEP	CR	4	0	0	0	0	0	0	0	
			SA	15	0	0	0	0	0	0	0	
			SR	30	0	0	0	0	0	0	0	
	Not Economically Disadvantaged	Economically Disadvantaged	CR	4	0	0	0	0	0	0	0	
			SA	4	0	0	0	0	0	0	0	
			SR	15	1	1	0	0	0	0	0	
	White	African American	CR	15	1	1	0	0	0	0	0	
			SA	30	3	2	1	0	0	0	0	
			SR	30	1	0	1	0	0	0	0	
	Students without Disabilities	Students with Disabilities	CR	4	0	0	0	0	0	0	0	
			SA	15	2	2	0	0	0	0	0	
			SR	30	3	1	2	0	0	0	0	
	8	Male	Female	CR	4	0	0	0	0	0	0	0
				SA	15	2	2	0	1	1	0	0
				SR	31	3	1	2	0	0	0	0
Not LEPFLEP		LEPFLEP	CR	4	0	0	0	0	0	0	0	
			SA	15	0	0	0	0	0	0	0	
			SR	31	2	0	2	0	0	0	0	
Not Economically Disadvantaged		Economically Disadvantaged	CR	4	0	0	0	0	0	0	0	
			SA	15	0	0	0	0	0	0	0	
			SR	31	0	0	0	0	0	0	0	
White		African American	CR	4	0	0	0	0	0	0	0	
			SA	15	1	1	0	0	0	0	0	
			SR	31	2	0	2	0	0	0	0	
Students without Disabilities		Students with Disabilities	CR	4	0	0	0	0	0	0	0	
			SA	15	1	1	0	0	0	0	0	
			SR	31	3	0	3	0	0	0	0	
10	Male	Female	CR	4	0	0	0	0	0	0	0	
			SA	5	1	0	1	0	0	0	0	
			SR	37	7	5	2	0	0	0	0	
	Not LEPFLEP	LEPFLEP	CR	4	0	0	0	0	0	0	0	
			SA	5	0	0	0	0	0	0	0	
			SR	37	2	2	0	0	0	0		

continued



Grade	Reference	Group		Item Type	Number of Items	Total	Number "Low" Favoring			Number "High" Favoring	
		Focal					Non-Remote Testers	Remote Testers	Total	Non-Remote Testers	Remote Testers
10	Not Economically Disadvantaged	Economically Disadvantaged	CR	4	0	0	0	0	0	0	0
			SA	5	0	0	0	0	0	0	0
			SR	37	0	0	0	0	0	0	0
		African American	CR	4	0	0	0	0	0	0	0
			SA	5	0	0	0	0	0	0	0
			SR	37	4	2	2	0	0	0	0
	White	Hispanic	CR	4	0	0	0	0	0	0	0
			SA	5	0	0	0	0	0	0	0
			SR	37	1	1	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	CR	4	0	0	0	0	0	0	0
			SA	5	0	0	0	0	0	0	0
			SR	37	0	0	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		
						Non- Remote Testers	Remote Testers	Total	Non- Remote Testers	Remote Testers	Total
5	Male	Female	CR	6	1	0	1	0	0	0	0
			SR	35	9	6	3	1	1	0	0
	Not LEPFLEP	LEPFLEP	CR	6	0	0	0	0	0	0	0
			SR	35	0	0	0	0	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	CR	6	0	0	0	0	0	0	0
			SR	35	0	0	0	0	0	0	0
	White	African American	CR	6	0	0	0	0	0	0	0
			SR	35	3	2	1	0	0	0	0
		Hispanic	CR	6	0	0	0	0	0	0	0
			SR	35	1	1	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	CR	6	0	0	0	0	0	0	0
			SR	35	1	0	1	0	0	0	0
8	Male	Female	CR	6	1	0	1	0	0	0	0
			SR	35	6	3	3	2	2	0	0
	Not LEPFLEP	LEPFLEP	CR	6	0	0	0	0	0	0	0
			SR	35	1	1	0	0	0	0	0
	Not Economically Disadvantaged	Economically Disadvantaged	CR	6	0	0	0	0	0	0	0
			SR	35	0	0	0	0	0	0	0
	White	African American	CR	6	0	0	0	0	0	0	0
			SR	35	5	4	1	0	0	0	0
		Hispanic	CR	6	0	0	0	0	0	0	0
			SR	35	2	2	0	0	0	0	0
	Students without Disabilities	Students with Disabilities	CR	6	0	0	0	0	0	0	0
			SR	35	3	2	1	0	0	0	0

**Table K-4. Number of Items Classified as “Low” or “High” DIF by Test Mode and Item Type—ELA**

Grade	Item Type	Number of Items	Total	Number “Low” Favoring		Total	Number “High” Favoring	
				Non-Remote Testers	Remote Testers		Non-Remote Testers	Remote Testers
3	CR	1	0	0	0	0	0	0
	ES	1	0	0	0	0	0	0
	SR	28	0	0	0	0	0	0
4	CR	1	0	0	0	0	0	0
	ES	1	0	0	0	0	0	0
	SR	29	1	0	1	0	0	0
5	ES	2	0	0	0	0	0	0
	SR	29	0	0	0	0	0	0
6	ES	2	0	0	0	0	0	0
	SR	30	1	0	1	0	0	0
7	ES	2	0	0	0	0	0	0
	SR	30	1	0	1	0	0	0
8	ES	2	0	0	0	0	0	0
	SR	30	1	0	1	0	0	0
10	CR	1	0	0	0	0	0	0
	ES	1	0	0	0	0	0	0

**Table K-5. Number of Items Classified as “Low” or “High” DIF by Test Mode and Item Type —Mathematics**

Grade	Item Type	Number of Items	Total	Number “Low” Favoring		Total	Number “High” Favoring	
				Non-Remote Testers	Remote Testers		Non-Remote Testers	Remote Testers
3	CR	4	0	0	0	0	0	0
	SA	10	4	2	2	0	0	0
	SR	33	7	4	3	1	0	1
4	CR	4	0	0	0	0	0	0
	SA	14	2	1	1	2	0	2
	SR	29	1	1	0	2	0	2
5	CR	4	1	0	1	0	0	0
	SA	10	0	0	0	2	1	1
	SR	31	3	1	2	2	1	1
6	CR	4	0	0	0	0	0	0
	SA	10	0	0	0	3	0	3
	SR	31	0	0	0	1	0	1
7	CR	4	1	1	0	1	0	1
	SA	15	2	1	1	1	0	1
	SR	30	5	4	1	0	0	0
8	CR	4	0	0	0	0	0	0
	SA	15	5	4	1	1	0	1
	SR	31	5	3	2	2	0	2
10	CR	4	0	0	0	0	0	0
	SA	5	0	0	0	0	0	0
	SR	37	0	0	0	0	0	0

**Table K-6. Number of Items Classified as “Low” or “High” DIF by Test Mode and Item Type—Science**

Grade	Item Type	Number of Items	Total	Number “Low” Favoring		Total	Number “High” Favoring	
				Non-Remote Testers	Remote Testers		Non-Remote Testers	Remote Testers
5	CR	6	0	0	0	0	0	0
	SR	35	0	0	0	0	0	0
8	CR	6	0	0	0	0	0	0
	SR	35	0	0	0	0	0	0