

Appendix C
Differential Item Functioning (DIF)

Tables List

Table C1 DIF for Mathematics Grade 3	C-3
Table C2 DIF for Mathematics Grade 4	C-4
Table C3 DIF for Mathematics Grade 5	C-5
Table C4 DIF for Mathematics Grade 6	C-6
Table C5 DIF for Mathematics Grade 7	C-7
Table C6 DIF for Mathematics Grade 8	C-8
Table C7 DIF for Reading Grade 10	C-9

Table C1
DIF for Mathematics Grade 3

OP/FT	Item Type	Form	Item #	C/U	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	1	4	C	+B	Eth	AA	1.09	18262	13765
OP	MC	1	4	C	+B	Eth	Hisp	1.14	18262	2847
OP	MC	1	10	C	-B	Sex	F	-1.07	18938	17992
OP	MC	1	13	C	-B	Sex	F	-1.05	18938	17992
OP	MC	1	55	C	-B	Eth	AA	-1.02	18262	13765
OP	MC	1	55	C	-B	Sex	F	-1.05	18938	17992
OP	MC	1	61	C	-B	Sex	F	-1.08	18938	17992
OP	MC	2	4	C	+B	Eth	Hisp	1.17	11959	1995
OP	MC	2	10	C	-B	Eth	AA	-1.10	11959	9198
OP	MC	2	10	C	-B	Sex	F	-1.36	12449	12123
OP	MC	2	13	C	-B	Sex	F	-1.03	12449	12123
OP	MC	2	35	C	-B	Eth	Hisp	-1.06	11959	1995
OP	MC	2	55	C	-B	Sex	F	-1.06	12449	12123
OP	MC	2	61	C	-B	Sex	F	-1.11	12449	12123
OP	MC	2	68	C	+B	Eth	Hisp	1.36	11959	1995
OP	CR	2	77B	C	+BB	Sex	F	0.19	12449	12123
FT	MC	A	79	U	-B	Eth	AA	-1.33	6209	4650
FT	CR	B	82A	U	-BB	Eth	Hisp	-0.17	6043	1030
FT	MC	C	84	U	-B	Eth	AA	-1.08	6045	4485
FT	MC	C	89	U	-B	Sex	F	-1.06	6226	5959
FT	MC	C	92	U	-B	Sex	F	-1.27	6226	5959
FT	MC	D	81	U	-B	Eth	AA	-1.19	5861	4506
FT	MC	D	81	U	-B	Sex	F	-1.08	6082	5971
FT	MC	D	92	U	-B	Eth	AA	-1.36	5861	4506
FT	MC	D	92	U	-B	Eth	Hisp	-1.12	5861	951
FT	MC	E	80	U	-B	Eth	Hisp	-1.30	5913	864
FT	MC	E	88	U	-B	Eth	AA	-1.28	5913	4453
FT	MC	E	93	U	-B	Eth	AA	-1.49	5913	4453

Table C2
DIF for Mathematics Grade 4

OP/FT	Item Type	Form	Item #	C/U	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	1	65	C	-B	Sex	F	-1.35	19480	18520
OP	MC	2	61	C	+B	Eth	Hisp	1.11	12421	1890
OP	MC	2	65	C	-B	Sex	F	-1.08	12969	12353
OP	MC	2	72	U	-B	Eth	AA	-1.05	12421	9633
OP	MC	2	73	U	-B	Sex	F	-1.13	12969	12353
OP	MC	2	78	U	+B	Eth	AA	1.01	12421	9633
OP	MC	2	78	U	+B	Eth	Hisp	1.22	12421	1890
FT	CR	A	80A	U	-BB	Sex	F	-0.18	6741	6100
FT	MC	A	83	U	+B	Sex	F	1.14	6741	6100
FT	CR	A	85A	U	-BB	Eth	AA	-0.18	6365	4795
FT	MC	C	84	U	+B	Eth	AA	1.00	6130	4772
FT	MC	D	94	U	-B	Eth	AA	-1.15	6100	4712
FT	MC	E	91	U	-B	Sex	F	-1.11	6170	6113

Table C3
DIF for Mathematics Grade 5

OP/FT	Item Type	Form	Item #	C/U	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	1	12	C	-B	Sex	F	-1.05	20293	18813
OP	MC	1	32	C	-B	Eth	Hisp	-1.30	18956	2717
OP	MC	1	53	C	-B	Eth	Hisp	-1.35	18956	2717
OP	CR	1	57B	U	+BB	Eth	AA	0.22	18956	15306
OP	MC	1	59	C	-C	Eth	AA	-1.63	18956	15306
OP	MC	1	62	C	-B	Eth	Hisp	-1.12	18956	2717
OP	CR	1	63B	C	-BB	Eth	Hisp	-0.17	18956	2717
OP	MC	1	66	C	-B	Sex	F	-1.15	20293	18813
OP	MC	1	67	C	+B	Eth	AA	1.05	18956	15306
OP	CR	1	70A	C	-BB	Eth	Hisp	-0.18	18956	2717
OP	MC	2	12	C	-B	Eth	AA	-1.04	12680	10099
OP	MC	2	32	C	-B	Eth	Hisp	-1.40	12680	1884
OP	MC	2	53	C	-C	Eth	Hisp	-1.65	12680	1884
OP	CR	2	57B	U	+BB	Eth	AA	0.22	12680	10099
OP	MC	2	59	C	-C	Eth	AA	-2.00	12680	10099
OP	MC	2	62	C	-B	Eth	Hisp	-1.33	12680	1884
OP	MC	2	66	C	-B	Sex	F	-1.34	13323	12688
OP	MC	2	67	C	+B	Eth	AA	1.01	12680	10099
FT	MC	A	83	U	+B	Sex	F	1.01	6932	6281
FT	MC	A	85	U	-C	Eth	AA	-1.88	6452	5144
FT	MC	A	85	U	-C	Eth	Hisp	-1.98	6452	896
FT	MC	B	83	U	-B	Eth	AA	-1.01	6385	4985
FT	MC	B	88	U	-B	Eth	AA	-1.25	6385	4985
FT	CR	C	81B	U	+BB	Sex	F	0.17	6657	6296
FT	MC	C	83	U	+B	Eth	Hisp	1.01	6330	912
FT	CR	C	85A	U	-BB	Eth	AA	-0.17	6330	4985
FT	MC	D	88	U	-B	Eth	AA	-1.01	6254	4954
FT	MC	E	78	U	+B	Eth	AA	1.15	6103	4903
FT	CR	E	81B	U	+BB	Sex	F	0.21	6526	6092
FT	MC	E	86	U	-B	Sex	F	-1.04	6526	6092

Table C4
DIF for Mathematics Grade 6

OP/FT	Item Type	Form	Item #	C/U	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	1	20	C	-B	Eth	AA	-1.13	19201	15665
OP	MC	1	20	C	-C	Sex	F	-2.21	20329	19164
OP	MC	1	34	C	+B	Eth	AA	1.12	19201	15665
OP	MC	1	44	U	-B	Eth	AA	-1.02	19201	15665
OP	MC	2	20	C	-B	Eth	AA	-1.25	12709	10486
OP	MC	2	20	C	-B	Eth	Hisp	-1.30	12709	1763
OP	MC	2	20	C	-C	Sex	F	-2.30	13526	12805
OP	MC	2	34	C	+B	Eth	AA	1.04	12709	10486
OP	CR	2	49B	U	-BB	Sex	F	-0.18	13526	12805
OP	CR	2	76B	U	+BB	Sex	F	0.24	13526	12805
FT	CR	B	88A	U	-BB	Eth	Hisp	-0.18	6263	876
FT	CR	B	89B	U	+BB	Eth	Hisp	0.19	6263	876
FT	CR	B	89B	U	+BB	Sex	F	0.20	6694	6302
FT	MC	C	85	U	-B	Sex	F	-1.15	6524	6350
FT	MC	D	83	U	-B	Eth	AA	-1.26	6282	5027

Table C5
DIF for Mathematics Grade 7

OP/FT	Item Type	Form	Item #	C/U	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	1	24	C	-B	Eth	AA	-1.39	20220	16096
OP	MC	1	24	C	-B	Sex	F	-1.48	21118	19798
OP	MC	1	35	C	-C	Sex	F	-1.53	21118	19798
OP	MC	1	51	C	-B	Sex	F	-1.10	21118	19798
OP	MC	2	15	C	+B	Eth	AA	1.02	13308	10735
OP	MC	2	24	C	-B	Eth	AA	-1.19	13308	10735
OP	MC	2	24	C	-B	Sex	F	-1.39	14008	13185
OP	MC	2	35	C	-B	Sex	F	-1.38	14008	13185
OP	CR	2	49A	U	+BB	Eth	AA	0.19	13308	10735
OP	MC	2	51	C	-B	Sex	F	-1.03	14008	13185
OP	CR	2	62B	U	-BB	Eth	AA	-0.20	13308	10735
OP	SPR	2	63	U	-BB	Eth	AA	-0.21	13308	10735
OP	MC	2	75	U	+B	Eth	AA	1.11	13308	10735
OP	SPR	2	78	U	-BB	Eth	AA	-0.18	13308	10735
OP	SPR	2	78	U	-BB	Sex	F	-0.17	14008	13185
OP	SPR	2	80	C	+BB	Eth	AA	0.17	13308	10735
FT	CR	A	84A	U	-CC	Eth	AA	-0.27	6645	5152
FT	CR	A	84B	U	-BB	Eth	AA	-0.25	6645	5152
FT	CR	A	95B	U	+BB	Sex	F	0.18	7015	6333
FT	MC	A	98	U	-B	Eth	AA	-1.04	6645	5152
FT	MC	B	89	U	-B	Eth	AA	-1.24	6521	5157
FT	CR	B	93B	U	-BB	Eth	Hisp	-0.18	6521	858

Table C6
DIF for Mathematics Grade 8

OP/FT	Item Type	Form	Item #	C/U	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	1	26	C	-B	Sex	F	-1.43	17605	16872
OP	MC	1	36	C	-B	Sex	F	-1.45	17605	16872
OP	MC	2	16	C	-B	Sex	F	-1.07	17458	16754
OP	MC	2	26	C	-B	Sex	F	-1.35	17458	16754
OP	MC	2	35	U	-B	Sex	F	-1.33	17458	16754
OP	MC	2	54	U	-B	Sex	F	-1.18	17458	16754
FT	MC	A	89	U	+B	Eth	AA	1.13	5664	4282
FT	MC	B	82	U	+B	Eth	Hisp	1.05	5582	688
FT	CR	C	83B	U	+BB	Sex	F	0.19	5652	5485
FT	MC	C	85	U	+B	Eth	Hisp	1.29	5605	688
FT	MC	D	86	U	-B	Eth	AA	-1.02	5613	4188
FT	MC	D	86	U	-B	Sex	F	-1.16	5624	5452
FT	MC	F	78	U	-B	Eth	Hisp	-1.21	5590	669

Table C7
DIF for Reading Grade 10

OP/FT	Item Type	Form	Item #	DIF	Bias Type	Focal	Delta(SR) ES (CR)	N_Ref	N_Foc
OP	MC	A	1	-B	Sex	F	-1.32	3526	3408
OP	MC	A	2	-B	Sex	F	-1.29	3526	3408
OP	MC	A	3	-B	Sex	F	-1.36	3526	3408
OP	MC	A	33	-B	Sex	F	-1.08	3526	3408
OP	MC	A	34	-B	Sex	F	-1.05	3526	3408
OP	MC	A	35	-B	Sex	F	-1.44	3526	3408
OP	CR	A	63	+CC	Sex	F	0.26	3526	3408
OP	MC	A	65	-B	Eth	AA	-1.16	5248	1420
OP	MC	A	77	-B	Eth	AA	-1.09	5248	1420