

LIST OF FIGURES

Figure 1.1. Test Information Curves of Base Form vs. Current Year’s Reading Operational Test Form	12
Figure 1.2. Standard Errors of Base Form vs. Current Year’s Reading Operational Test Form.....	12
Figure 1.3. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 3 Form A.....	39
Figure 1.4. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 3 Form B.....	41
Figure 1.5. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 4 Form A.....	43
Figure 1.6. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 4 Form B.....	45
Figure 1.7. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 5 Form A.....	47
Figure 1.8. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 5 Form B.....	49
Figure 1.9. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 6 Form A.....	51
Figure 1.10. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 6 Form B.....	53
Figure 1.11. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 7 Form A.....	55
Figure 1.12. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 7 Form B.....	57
Figure 1.13. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 8 Form A.....	59
Figure 1.14. Rasch Item Difficulty Comparison of BCR Items for Previous Year vs. Year 2011: Grade 8 Form B.....	61
Figure 1.15. Anchor Evaluation Steps Chart for MSA-Reading.....	64
Figure 1.16. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 3. Form A.....	67
Figure 1.17. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 3 Form B.....	67
Figure 1.18. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 4 Form A.....	70
Figure 1.19. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 4 Form B.....	70
Figure 1.20. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 5 Form A.....	73
Figure 1.21. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 5 Form B.....	73
Figure 1.22. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 6 Form A.....	76
Figure 1.23. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 6 Form B.....	76
Figure 1.24. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 7 Form A.....	79
Figure 1.25. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 7 Form B.....	79
Figure 1.26. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 8 Form A.....	82

Figure 1.27. Item Difficulty Plot of Previous Year Form vs. Current Year (2011) Forms: Grade 8 Form B	82
Figure 3.1. Item Characteristic Curve	111
Figure 3.2. Category Response Curves for a One-Step Item.....	112
Figure 3.3. Category Response Curves for a Two-Step Item.....	113
Figure A.1. Year 2003 Scale Score Distribution: Grade 3	156
Figure A.2. Year 2011 Scale Score Distribution: Grade 3 Form A.....	157
Figure A.3. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 3 Form A.....	158
Figure A.4. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form A	158
Figure A.5. Year 2011 Scale Score Distribution: Grade 3 Form B.....	159
Figure A.6. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 3 Form B	160
Figure A.7. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form B	160
Figure A.8. Year 2004 Scale Score Distribution: Grade 4	161
Figure A.9. Year 2011 Scale Score Distribution: Grade 4 Form A.....	162
Figure A.10. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 4 Form A.....	163
Figure A.11. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 4 Form A	163
Figure A.12. Year 2011 Scale Score Distribution: Grade 4 Form B.....	164
Figure A.13. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 4 Form B	165
Figure A.14. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 4 Form B.....	165
Figure A.15. Year 2003 Scale Score Distribution: Grade 5	166
Figure A.16. Year 2011 Scale Score Distribution: Grade 5 Form A.....	167
Figure A.17. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 5 Form A.....	168
Figure A.18. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form A	168
Figure A.19. Year 2011 Scale Score Distribution: Grade 5 Form B.....	169
Figure A.20. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 5 Form B.....	170
Figure A.21. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form B	170
Figure A.22. Year 2004 Scale Score Distribution: Grade 6	171
Figure A.23. Year 2011 Scale Score Distribution: Grade 6 Form A.....	172
Figure A.24. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 6 Form A.....	173
Figure A.25. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form A	173
Figure A.26. Year 2011 Scale Score Distribution: Grade 6 Form B.....	174
Figure A.27. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 6 Form B	175
Figure A.28. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form B	175
Figure A.29. Year 2004 Scale Score Distribution: Grade 7	176
Figure A.30. Year 2011 Scale Score Distribution: Grade 7 Form A.....	177

Figure A.31. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 7 Form A..... 178

Figure A.32. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form A 178

Figure A.33. Year 2011 Scale Score Distribution: Grade 7 Form B..... 179

Figure A.34. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 7 Form B 180

Figure A.35. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form B 180

Figure A.36. Year 2003 Scale Score Distribution: Grade 8 181

Figure A.37. Year 2011 Scale Score Distribution: Grade 8 Form A..... 182

Figure A.38. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 8 Form A..... 183

Figure A.39. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form A 183

Figure A.40. Year 2011 Scale Score Distribution: Grade 8 Form B..... 184

Figure A.41. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Percent Differences between CDFs: Grade 8 Form B..... 185

Figure A.42. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2011 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form B 185