



Arkansas Comprehensive Testing, Assessment, and Accountability Program

**Arkansas Augmented Benchmark Examinations
Raw To Scale Score Conversion Tables
April 2011 Administration**

Introduction

The *Raw to Scale Score Conversion Tables* provide information on raw scores attained by students for Mathematics, Literacy (Reading and Writing), or Science on the Arkansas Augmented Benchmark Examinations, and how those scores correspond with student scale scores.

The attached *Raw to Scale Score Conversion Tables* are specific to the April 2011 administration of the Arkansas Augmented Benchmark Examinations and do NOT apply to any other administration.

What are Scale Scores?

Scale Scores are transformed raw scores. For every possible raw score on a test form, there is a corresponding scale score, although a scale score may represent more than one raw score depending on the distribution of the results. When multiple forms of a test are used, or when results are compared from year to year, scale scores are needed to adjust for possible differences in test form length or difficulty. For example, it would not be possible to interpret a raw score of 50 items correct or points earned without knowing how many items are on the test and how difficult those items are.

Why Use Scale Scores?

Scale scores provide a useful measurement tool for many assessment programs. They are used in numerous national testing programs, including the ACT and SAT examinations, which are typically part of the admissions process for colleges and universities. Scale scores are also routinely used in many other statewide testing programs, providing the basis for long-term, meaningful comparisons of student results across different test administrations.

Educators have always adjusted for differences in test length by changing from “number correct” scores to “percent correct” scores. The next step is to remove differences in item difficulty by moving to “scale scores.” To illustrate the value of this step, consider an examination with just two forms: Form A and Form B. If the items on Form A happen to be slightly more difficult than the items on Form B, one would expect a student to answer a higher percentage of items correctly if Form B were administered rather than Form A. However, a student should receive the same scale score for either form.

Scale scores are intended to make scores more meaningful by defining a scale of measurement that is not tied to a particular form of a test. However, to be meaningful, the scale must be tied to a benchmark that is meaningful to the user. The Arkansas Augmented Benchmark Examinations were constructed so that a specific score for Mathematics, Literacy (Reading and Writing), or Science corresponds to the Advanced, Proficient, Basic, and Below Basic performance levels. In the future, these values may correspond to different raw scores, but they will have the same meaning in terms of student performance.

April 2011 Scale Scores

The attached *Raw to Scale Score Conversion Tables* list the total number of raw score points available for Mathematics, Literacy (Literacy is the combined number of points for the Reading and Writing sections of the test), and Science, as well as the associated scale scores. It should be noted that there are important differences in the range of the scale scores between Mathematics, Literacy (Reading and Writing), or Science. The maximum scale scores for Mathematics and Literacy are higher than the maximum scale score for Science. While the raw scores for Science are similar to the raw scores of Mathematics, it is important to understand that the scale scores for the two content areas are not connected and should not be considered equivalent in any sense. In addition, the Mathematics and Literacy assessments are on a vertical scale across grades, meaning the scale score associated with a particular performance level increases as the grade increases, whereas the Science assessments are not. Given the differences among the three content areas and the differences in student performance results, it is not appropriate to compare the three sets of scale scores.

The table below lists the performance levels and associated scale scores ranges for the Arkansas Augmented Benchmark Examinations.

2011 Arkansas Augmented Benchmark Examinations Scale Score Ranges

Grade	Mathematics				Literacy			
	Below Basic	Basic	Proficient	Advanced	Below Basic	Basic	Proficient	Advanced
3	0–408	409–499	500–585	586–999	0–329	330–499	500–653	654–999
4	0–494	495–558	559–639	640–999	0–353	354–558	559–747	748–999
5	0–543	544–603	604–696	697–999	0–381	382–603	604–798	799–999
6	0–568	569–640	641–721	722–999	0–416	417–640	641–822	823–999
7	0–621	622–672	673–763	764–999	0–425	426–672	673–866	867–999
8	0–654	655–699	700–801	802–999	0–506	507–699	700–913	914–999

Grade	Science			
	Below Basic	Basic	Proficient	Advanced
5	0–153	154–199	200–249	250 and above
7	0–151	152–199	200–249	250 and above

The Arkansas Augmented Benchmark Examinations *Report Interpretation Guide* contains more information on the development of the performance levels. For additional information about the results and information on student performance, please contact:

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4 State Capitol Mall, Room 106A
Little Rock, AR 72201-1071
Telephone: 501-682-4558

2011 Grade 3 Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	36
1	90
2	175
3	216
4	246
5	271
6	292
7	310
8	327
9	342
10	356
11	369
12	381
13	393

BASIC	
Raw Score	Scale Score
14	409
15	414
16	425
17	434
18	444
19	453
20	461
21	470
22	478
23	486
24	493

PROFICIENT	
Raw Score	Scale Score
25	500
26	508
27	515
28	522
29	529
30	535
31	542
32	548
33	554
34	561
35	567
36	573
37	578

ADVANCED	
Raw Score	Scale Score
38	586
39	590
40	596
41	602
42	607
43	613
44	618
45	624
46	630
47	635
48	641
49	646
50	652
51	657
52	663
53	669
54	674
55	680
56	686
57	692
58	698
59	704
60	710
61	717
62	723
63	730
64	737
65	745
66	753
67	761
68	769
69	779
70	788
71	799
72	811
73	824
74	838
75	855
76	875
77	901
78	937
79	960
80	974

2011 Grade 3 Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0.0	24	19.0	166
0.5	32	19.5	171
1.0	37	20.0	175
1.5	40	20.5	180
2.0	42	21.0	185
2.5	44	21.5	190
3.0	45	22.0	195
3.5	46	22.5	199
4.0	47	23.0	204
4.5	48	23.5	208
5.0	49	24.0	213
5.5	50	24.5	217
6.0	50	25.0	222
6.5	51	25.5	226
7.0	51	26.0	231
7.5	52	26.5	235
8.0	52	27.0	240
8.5	53	27.5	244
9.0	53	28.0	248
9.5	54	28.5	253
10.0	54	29.0	257
10.5	62	29.5	261
11.0	70	30.0	266
11.5	77	30.5	270
12.0	84	31.0	274
12.5	91	31.5	279
13.0	98	32.0	283
13.5	104	32.5	287
14.0	110	33.0	291
14.5	116	33.5	296
15.0	122	34.0	300
15.5	128	34.5	304
16.0	134	35.0	309
16.5	139	35.5	313
17.0	145	36.0	317
17.5	150	36.5	321
18.0	155	37.0	326
18.5	160		

BASIC	
Raw Score	Scale Score
37.5	330
38.0	336
38.5	343
39.0	349
39.5	355
40.0	362
40.5	368
41.0	375
41.5	381
42.0	387
42.5	394
43.0	400
43.5	406
44.0	413
44.5	419
45.0	425
45.5	432
46.0	438
46.5	444
47.0	451
47.5	457
48.0	463
48.5	470
49.0	476
49.5	482
50.0	489
50.5	495

PROFICIENT	
Raw Score	Scale Score
51.0	500
51.5	506
52.0	511
52.5	515
53.0	520
53.5	525
54.0	530
54.5	535
55.0	539
55.5	544
56.0	549
56.5	554
57.0	558
57.5	563
58.0	568
58.5	572
59.0	577
59.5	582
60.0	586
60.5	591
61.0	596
61.5	600
62.0	605
62.5	610
63.0	614
63.5	619
64.0	623
64.5	628
65.0	633
65.5	637
66.0	642
66.5	646
67.0	651

ADVANCED			
Raw Score	Scale Score	Raw Score	Scale Score
67.5	654	82.0	817
68.0	660	82.5	825
68.5	665	83.0	833
69.0	669	83.5	841
69.5	674	84.0	850
70.0	679	84.5	859
70.5	684	85.0	869
71.0	688	85.5	879
71.5	693	86.0	889
72.0	698	86.5	900
72.5	703	87.0	912
73.0	708	87.5	924
73.5	713	88.0	937
74.0	718	88.5	950
74.5	723	89.0	956
75.0	728	89.5	957
75.5	734	90.0	958
76.0	739	90.5	958
76.5	745	91.0	959
77.0	751	91.5	960
77.5	756	92.0	961
78.0	762	92.5	962
78.5	769	93.0	963
79.0	775	93.5	965
79.5	781	94.0	966
80.0	788	94.5	969
80.5	795	95.0	972
81.0	802	95.5	977
81.5	809	96.0	985

2011 Grade 4 Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	31
1	143
2	210
3	250
4	280
5	303
6	323
7	340
8	356
9	370
10	382
11	394
12	405
13	415
14	425
15	434
16	443
17	451
18	459
19	467
20	474
21	481
22	488

BASIC	
Raw Score	Scale Score
23	495
24	502
25	508
26	515
27	521
28	527
29	533
30	539
31	544
32	550
33	556

PROFICIENT	
Raw Score	Scale Score
34	559
35	566
36	572
37	577
38	582
39	588
40	593
41	598
42	603
43	609
44	614
45	619
46	624
47	630
48	635

ADVANCED	
Raw Score	Scale Score
49	640
50	646
51	652
52	657
53	663
54	669
55	675
56	682
57	688
58	695
59	702
60	709
61	716
62	724
63	732
64	741
65	750
66	759
67	769
68	780
69	792
70	805
71	819
72	835
73	852
74	872
75	895
76	922
77	956
78	961
79	970
80	984

2011 Grade 4 Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0.0	33	17.0	170
0.5	38	17.5	176
1.0	41	18.0	182
1.5	43	18.5	188
2.0	44	19.0	194
2.5	46	19.5	200
3.0	47	20.0	206
3.5	48	20.5	212
4.0	49	21.0	217
4.5	49	21.5	223
5.0	50	22.0	228
5.5	51	22.5	234
6.0	51	23.0	239
6.5	52	23.5	245
7.0	52	24.0	250
7.5	53	24.5	256
8.0	53	25.0	261
8.5	54	25.5	266
9.0	54	26.0	271
9.5	56	26.5	277
10.0	66	27.0	282
10.5	75	27.5	287
11.0	83	28.0	292
11.5	92	28.5	297
12.0	100	29.0	302
12.5	108	29.5	308
13.0	115	30.0	313
13.5	123	30.5	318
14.0	130	31.0	323
14.5	137	31.5	328
15.0	144	32.0	333
15.5	150	32.5	338
16.0	157	33.0	343
16.5	163	33.5	348

BASIC	
Raw Score	Scale Score
34.0	354
34.5	358
35.0	363
35.5	368
36.0	372
36.5	377
37.0	382
37.5	387
38.0	392
38.5	397
39.0	402
39.5	407
40.0	411
40.5	416
41.0	421
41.5	426
42.0	431
42.5	436
43.0	440
43.5	445
44.0	450
44.5	455
45.0	460
45.5	464
46.0	469
46.5	474
47.0	479
47.5	484
48.0	488
48.5	493
49.0	498
49.5	503
50.0	507
50.5	512
51.0	517
51.5	522
52.0	526
52.5	531
53.0	536
53.5	541
54.0	545
54.5	550
55.0	555

PROFICIENT	
Raw Score	Scale Score
55.5	559
56.0	565
56.5	569
57.0	574
57.5	579
58.0	584
58.5	589
59.0	594
59.5	598
60.0	603
60.5	608
61.0	613
61.5	618
62.0	623
62.5	628
63.0	633
63.5	638
64.0	643
64.5	648
65.0	653
65.5	658
66.0	663
66.5	669
67.0	674
67.5	679
68.0	684
68.5	690
69.0	695
69.5	701
70.0	706
70.5	712
71.0	717
71.5	723
72.0	729
72.5	734
73.0	740

ADVANCED	
Raw Score	Scale Score
73.5	748
74.0	752
74.5	758
75.0	764
75.5	771
76.0	777
76.5	784
77.0	790
77.5	797
78.0	804
78.5	811
79.0	818
79.5	825
80.0	833
80.5	840
81.0	848
81.5	856
82.0	864
82.5	872
83.0	881
83.5	890
84.0	899
84.5	909
85.0	919
85.5	929
86.0	939
86.5	950
87.0	956
87.5	957
88.0	957
88.5	958
89.0	958
89.5	959
90.0	960
90.5	960
91.0	961
91.5	962
92.0	963
92.5	964
93.0	965
93.5	967
94.0	968
94.5	970
95.0	973
95.5	979
96.0	987

2011 Grade 5 Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	94
1	207
2	274
3	315
4	345
5	370
6	390
7	408
8	423
9	438
10	451
11	463
12	474
13	485
14	495
15	505
16	514
17	522
18	531
19	539

BASIC	
Raw Score	Scale Score
20	544
21	554
22	562
23	569
24	576
25	582
26	589
27	595
28	601

PROFICIENT	
Raw Score	Scale Score
29	604
30	613
31	618
32	623
33	629
34	633
35	638
36	643
37	648
38	652
39	656
40	661
41	665
42	669
43	673
44	677
45	681
46	685
47	690
48	694

ADVANCED	
Raw Score	Scale Score
49	697
50	702
51	707
52	711
53	716
54	721
55	725
56	731
57	736
58	742
59	747
60	753
61	760
62	767
63	774
64	781
65	789
66	798
67	807
68	817
69	827
70	839
71	852
72	866
73	882
74	900
75	921
76	946
77	958
78	963
79	972
80	986

2011 Grade 5 Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0.0	25	17.5	203
0.5	34	18.0	210
1.0	39	18.5	216
1.5	42	19.0	222
2.0	44	19.5	228
2.5	45	20.0	234
3.0	46	20.5	240
3.5	48	21.0	246
4.0	49	21.5	252
4.5	49	22.0	258
5.0	50	22.5	263
5.5	51	23.0	269
6.0	51	23.5	274
6.5	52	24.0	279
7.0	53	24.5	285
7.5	53	25.0	290
8.0	54	25.5	295
8.5	56	26.0	300
9.0	67	26.5	305
9.5	77	27.0	310
10.0	87	27.5	315
10.5	96	28.0	320
11.0	105	28.5	325
11.5	114	29.0	330
12.0	123	29.5	335
12.5	131	30.0	339
13.0	139	30.5	344
13.5	147	31.0	349
14.0	155	31.5	354
14.5	162	32.0	358
15.0	169	32.5	363
15.5	176	33.0	367
16.0	183	33.5	372
16.5	190	34.0	376
17.0	197		

BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
34.5	382	48.0	493
35.0	385	48.5	497
35.5	389	49.0	501
36.0	394	49.5	506
36.5	398	50.0	510
37.0	402	50.5	514
37.5	407	51.0	518
38.0	411	51.5	522
38.5	415	52.0	526
39.0	420	52.5	530
39.5	424	53.0	534
40.0	428	53.5	538
40.5	432	54.0	542
41.0	436	54.5	547
41.5	440	55.0	551
42.0	445	55.5	555
42.5	449	56.0	559
43.0	453	56.5	564
43.5	457	57.0	568
44.0	461	57.5	572
44.5	465	58.0	577
45.0	469	58.5	581
45.5	473	59.0	585
46.0	477	59.5	590
46.5	481	60.0	594
47.0	485	60.5	599
47.5	489		

PROFICIENT	
Raw Score	Scale Score
61.0	604
61.5	608
62.0	613
62.5	618
63.0	623
63.5	628
64.0	632
64.5	637
65.0	643
65.5	648
66.0	653
66.5	658
67.0	663
67.5	669
68.0	674
68.5	680
69.0	685
69.5	691
70.0	697
70.5	703
71.0	709
71.5	715
72.0	721
72.5	727
73.0	733
73.5	740
74.0	746
74.5	753
75.0	759
75.5	766
76.0	773
76.5	780
77.0	787
77.5	794

ADVANCED	
Raw Score	Scale Score
78.0	799
78.5	809
79.0	817
79.5	824
80.0	832
80.5	840
81.0	848
81.5	857
82.0	865
82.5	874
83.0	883
83.5	892
84.0	902
84.5	912
85.0	922
85.5	932
86.0	943
86.5	955
87.0	956
87.5	957
88.0	957
88.5	958
89.0	959
89.5	959
90.0	960
90.5	961
91.0	961
91.5	962
92.0	963
92.5	964
93.0	966
93.5	967
94.0	969
94.5	971
95.0	974
95.5	979
96.0	988

2011 Grade 5 Benchmark Examination Raw to Scale Score Conversion Tables for Science

BELOW BASIC	
Raw Score	Scale Score
0	4
1	16
2	23
3	42
4	56
5	67
6	76
7	85
8	92
9	98
10	104
11	109
12	114
13	119
14	124
15	128
16	132
17	136
18	139
19	143
20	146
21	149
22	152

BASIC	
Raw Score	Scale Score
23	154
24	158
25	161
26	164
27	167
28	169
29	172
30	175
31	177
32	180
33	182
34	184
35	187
36	189
37	191
38	194
39	196
40	198

PROFICIENT	
Raw Score	Scale Score
41	200
42	203
43	205
44	207
45	209
46	212
47	214
48	216
49	219
50	221
51	223
52	225
53	228
54	230
55	233
56	235
57	238
58	240
59	243
60	246
61	248

ADVANCED	
Raw Score	Scale Score
62	250
63	254
64	257
65	261
66	264
67	268
68	272
69	276
70	281
71	286
72	291
73	298
74	305
75	313
76	324
77	337
78	356
79	387
80	441

**2011 Grade 6 Benchmark Examination
Raw to Scale Score Conversion Tables for Mathematics**

BELOW BASIC	
Raw Score	Scale Score
0	106
1	219
2	286
3	328
4	358
5	383
6	403
7	421
8	437
9	452
10	465
11	477
12	489
13	499
14	510
15	519
16	528
17	537
18	546
19	554
20	562

BASIC	
Raw Score	Scale Score
21	569
22	576
23	583
24	590
25	597
26	603
27	609
28	615
29	621
30	627
31	632
32	638

PROFICIENT	
Raw Score	Scale Score
33	641
34	648
35	653
36	658
37	663
38	668
39	672
40	677
41	682
42	686
43	691
44	696
45	700
46	705
47	710
48	714

ADVANCED	
Raw Score	Scale Score
49	722
50	724
51	729
52	734
53	740
54	745
55	750
56	756
57	762
58	768
59	774
60	780
61	787
62	794
63	802
64	809
65	818
66	826
67	836
68	846
69	857
70	869
71	882
72	897
73	914
74	934
75	957
76	959
77	963
78	969
79	978
80	992

2011 Grade 6 Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0.0	18	20.5	176
0.5	27	21.0	183
1.0	32	21.5	190
1.5	35	22.0	197
2.0	37	22.5	203
2.5	39	23.0	210
3.0	41	23.5	217
3.5	42	24.0	223
4.0	43	24.5	229
4.5	44	25.0	236
5.0	45	25.5	242
5.5	46	26.0	248
6.0	47	26.5	254
6.5	47	27.0	260
7.0	48	27.5	266
7.5	49	28.0	271
8.0	49	28.5	277
8.5	50	29.0	283
9.0	50	29.5	288
9.5	51	30.0	294
10.0	51	30.5	300
10.5	52	31.0	305
11.0	52	31.5	310
11.5	53	32.0	316
12.0	53	32.5	321
12.5	53	33.0	326
13.0	54	33.5	332
13.5	61	34.0	337
14.0	70	34.5	342
14.5	80	35.0	347
15.0	89	35.5	352
15.5	97	36.0	357
16.0	106	36.5	362
16.5	114	37.0	367
17.0	123	37.5	372
17.5	131	38.0	377
18.0	139	38.5	382
18.5	146	39.0	386
19.0	154	39.5	391
19.5	161	40.0	396
20.0	169	40.5	401
		41.0	406
		41.5	410

BASIC	
Raw Score	Scale Score
42.0	417
42.5	420
43.0	424
43.5	429
44.0	433
44.5	438
45.0	442
45.5	447
46.0	451
46.5	456
47.0	460
47.5	465
48.0	469
48.5	474
49.0	478
49.5	482
50.0	487
50.5	491
51.0	496
51.5	500
52.0	504
52.5	509
53.0	513
53.5	518
54.0	522
54.5	526
55.0	531
55.5	535
56.0	540
56.5	544
57.0	549
57.5	553
58.0	558
58.5	562
59.0	567
59.5	572
60.0	576
60.5	581
61.0	586
61.5	591
62.0	595
62.5	600
63.0	605
63.5	610
64.0	615
64.5	620
65.0	625
65.5	631
66.0	636

PROFICIENT	
Raw Score	Scale Score
66.5	641
67.0	646
67.5	652
68.0	657
68.5	663
69.0	668
69.5	674
70.0	680
70.5	686
71.0	691
71.5	697
72.0	703
72.5	709
73.0	716
73.5	722
74.0	728
74.5	735
75.0	741
75.5	748
76.0	754
76.5	761
77.0	768
77.5	775
78.0	782
78.5	789
79.0	797
79.5	804
80.0	812

ADVANCED	
Raw Score	Scale Score
80.5	823
81.0	828
81.5	837
82.0	845
82.5	854
83.0	863
83.5	872
84.0	882
84.5	892
85.0	902
85.5	913
86.0	924
86.5	936
87.0	948
87.5	956
88.0	957
88.5	957
89.0	958
89.5	959
90.0	959
90.5	960
91.0	961
91.5	962
92.0	963
92.5	964
93.0	965
93.5	966
94.0	968
94.5	970
95.0	974
95.5	979
96.0	988

2011 Grade 7 Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	174
1	287
2	355
3	396
4	427
5	451
6	472
7	491
8	507
9	522
10	536
11	548
12	560
13	571
14	582
15	592
16	601
17	610

BASIC	
Raw Score	Scale Score
18	622
19	627
20	635
21	643
22	651
23	658
24	665

PROFICIENT	
Raw Score	Scale Score
25	673
26	679
27	685
28	691
29	698
30	704
31	710
32	716
33	722
34	727
35	733
36	738
37	744
38	749
39	754
40	759

ADVANCED	
Raw Score	Scale Score
41	764
42	769
43	774
44	779
45	783
46	788
47	793
48	798
49	802
50	807
51	812
52	816
53	821
54	826
55	831
56	836
57	841
58	847
59	852
60	858
61	864
62	870
63	877
64	884
65	891
66	899
67	908
68	917
69	927
70	939
71	951
72	956
73	958
74	961
75	964
76	968
77	973
78	980
79	991
80	999

2011 Grade 7 Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0.0	24	22.0	218
0.5	33	22.5	223
1.0	37	23.0	228
1.5	40	23.5	234
2.0	42	24.0	239
2.5	44	24.5	244
3.0	45	25.0	249
3.5	46	25.5	254
4.0	47	26.0	259
4.5	48	26.5	264
5.0	49	27.0	269
5.5	50	27.5	274
6.0	50	28.0	279
6.5	51	28.5	284
7.0	51	29.0	289
7.5	52	29.5	294
8.0	52	30.0	299
8.5	53	30.5	304
9.0	53	31.0	309
9.5	54	31.5	313
10.0	54	32.0	318
10.5	63	32.5	323
11.0	72	33.0	328
11.5	80	33.5	333
12.0	89	34.0	337
12.5	96	34.5	342
13.0	104	35.0	347
13.5	112	35.5	352
14.0	119	36.0	357
14.5	126	36.5	361
15.0	133	37.0	366
15.5	140	37.5	371
16.0	147	38.0	376
16.5	153	38.5	380
17.0	159	39.0	385
17.5	166	39.5	390
18.0	172	40.0	395
18.5	178	40.5	399
19.0	184	41.0	404
19.5	190	41.5	409
20.0	195	42.0	414
20.5	201	42.5	418
21.0	207	43.0	423
21.5	212		

BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
43.5	426	56.5	549
44.0	432	57.0	553
44.5	437	57.5	558
45.0	442	58.0	563
45.5	447	58.5	567
46.0	451	59.0	572
46.5	456	59.5	576
47.0	461	60.0	581
47.5	465	60.5	586
48.0	470	61.0	590
48.5	475	61.5	595
49.0	479	62.0	600
49.5	484	62.5	605
50.0	489	63.0	609
50.5	493	63.5	614
51.0	498	64.0	619
51.5	503	64.5	624
52.0	507	65.0	629
52.5	512	65.5	634
53.0	516	66.0	639
53.5	521	66.5	644
54.0	526	67.0	649
54.5	530	67.5	654
55.0	535	68.0	659
55.5	539	68.5	664
56.0	544	69.0	669

PROFICIENT	
Raw Score	Scale Score
69.5	673
70.0	680
70.5	686
71.0	691
71.5	697
72.0	702
72.5	708
73.0	714
73.5	720
74.0	726
74.5	732
75.0	738
75.5	744
76.0	751
76.5	757
77.0	764
77.5	771
78.0	777
78.5	784
79.0	792
79.5	799
80.0	807
80.5	814
81.0	822
81.5	830
82.0	839
82.5	847
83.0	856

ADVANCED	
Raw Score	Scale Score
83.5	867
84.0	874
84.5	884
85.0	894
85.5	905
86.0	915
86.5	927
87.0	939
87.5	951
88.0	956
88.5	957
89.0	957
89.5	958
90.0	959
90.5	960
91.0	960
91.5	961
92.0	962
92.5	963
93.0	964
93.5	966
94.0	968
94.5	970
95.0	973
95.5	978
96.0	987

2011 Grade 7 Benchmark Examination Raw to Scale Score Conversion Tables for Science

BELOW BASIC	
Raw Score	Scale Score
0	2
1	7
2	9
3	11
4	12
5	24
6	35
7	44
8	52
9	59
10	66
11	72
12	77
13	82
14	87
15	92
16	97
17	101
18	105
19	109
20	113
21	117
22	120
23	124
24	127
25	131
26	134
27	137
28	140
29	144
30	147
31	150

BASIC	
Raw Score	Scale Score
32	152
33	156
34	158
35	161
36	164
37	167
38	170
39	172
40	175
41	178
42	180
43	183
44	186
45	188
46	191
47	194
48	196

PROFICIENT	
Raw Score	Scale Score
49	200
50	202
51	204
52	207
53	210
54	213
55	215
56	218
57	221
58	224
59	228
60	231
61	234
62	238
63	242
64	245

ADVANCED	
Raw Score	Scale Score
65	250
66	254
67	259
68	264
69	269
70	275
71	281
72	288
73	296
74	305
75	316
76	329
77	345
78	367
79	404
80	467

2011 Grade 8 Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	200
1	313
2	380
3	422
4	452
5	476
6	496
7	514
8	529
9	543
10	556
11	567
12	578
13	587
14	596
15	605
16	613
17	620
18	628
19	634
20	641
21	647

BASIC	
Raw Score	Scale Score
22	655
23	659
24	665
25	670
26	676
27	681
28	686
29	692
30	697

PROFICIENT	
Raw Score	Scale Score
31	700
32	708
33	713
34	718
35	724
36	729
37	735
38	740
39	746
40	752
41	758
42	763
43	769
44	775
45	781
46	787
47	793

ADVANCED	
Raw Score	Scale Score
48	802
49	805
50	811
51	818
52	824
53	830
54	836
55	842
56	849
57	855
58	861
59	868
60	874
61	881
62	888
63	895
64	902
65	909
66	917
67	925
68	934
69	943
70	953
71	956
72	958
73	960
74	962
75	965
76	968
77	974
78	986
79	992
80	999

2011 Grade 8 Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0.0	29	22.0	301
0.5	38	22.5	306
1.0	43	23.0	310
1.5	46	23.5	314
2.0	48	24.0	319
2.5	49	24.5	323
3.0	50	25.0	327
3.5	51	25.5	332
4.0	52	26.0	336
4.5	53	26.5	340
5.0	54	27.0	345
5.5	64	27.5	349
6.0	79	28.0	353
6.5	92	28.5	357
7.0	104	29.0	362
7.5	115	29.5	366
8.0	125	30.0	370
8.5	135	30.5	374
9.0	145	31.0	378
9.5	154	31.5	383
10.0	162	32.0	387
10.5	170	32.5	391
11.0	178	33.0	396
11.5	185	33.5	400
12.0	192	34.0	404
12.5	199	34.5	409
13.0	206	35.0	413
13.5	212	35.5	417
14.0	218	36.0	422
14.5	224	36.5	426
15.0	230	37.0	431
15.5	236	37.5	435
16.0	242	38.0	440
16.5	247	38.5	444
17.0	252	39.0	449
17.5	258	39.5	454
18.0	263	40.0	459
18.5	268	40.5	463
19.0	273	41.0	468
19.5	278	41.5	473
20.0	282	42.0	478
20.5	287	42.5	483
21.0	292	43.0	488
21.5	296	43.5	493
		44.0	498
		44.5	503

BASIC	
Raw Score	Scale Score
45.0	507
45.5	513
46.0	518
46.5	523
47.0	529
47.5	534
48.0	539
48.5	545
49.0	550
49.5	555
50.0	561
50.5	566
51.0	572
51.5	577
52.0	583
52.5	588
53.0	594
53.5	600
54.0	605
54.5	611
55.0	616
55.5	622
56.0	628
56.5	633
57.0	639
57.5	645
58.0	650
58.5	656
59.0	662
59.5	667
60.0	673
60.5	679
61.0	684
61.5	690
62.0	696

PROFICIENT	
Raw Score	Scale Score
62.5	700
63.0	707
63.5	713
64.0	718
64.5	724
65.0	730
65.5	735
66.0	741
66.5	746
67.0	752
67.5	758
68.0	763
68.5	769
69.0	775
69.5	781
70.0	786
70.5	792
71.0	798
71.5	804
72.0	810
72.5	815
73.0	821
73.5	827
74.0	833
74.5	839
75.0	845
75.5	852
76.0	858
76.5	864
77.0	871
77.5	877
78.0	884
78.5	890
79.0	897
79.5	904

ADVANCED	
Raw Score	Scale Score
80.0	914
80.5	919
81.0	926
81.5	934
82.0	941
82.5	949
83.0	956
83.5	956
84.0	957
84.5	957
85.0	958
85.5	958
86.0	958
86.5	959
87.0	959
87.5	960
88.0	960
88.5	961
89.0	961
89.5	962
90.0	963
90.5	963
91.0	964
91.5	965
92.0	966
92.5	967
93.0	968
93.5	969
94.0	971
94.5	973
95.0	976
95.5	981
96.0	990