



Arkansas Comprehensive Testing, Assessment, and Accountability Program

Arkansas Augmented Benchmark Examinations Raw To Scale Score Conversion Tables April 2009 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 2009 administration of the 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 Science, Mathematics, or Literacy 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 2009 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 Science, Mathematics, and Literacy. 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.

2009 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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2009 Grade 3 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	27
1	89
2	156
3	197
4	228
5	252
6	272
7	290
8	306
9	320
10	332
11	344
12	355
13	365
14	375
15	384
16	392
17	400

BASIC	
Raw Score	Scale Score
18	409
19	415
20	421
21	428
22	434
23	440
24	446
25	451
26	457
27	462
28	467
29	472
30	477
31	482
32	487
33	491
34	496

PROFICIENT	
Raw Score	Scale Score
35	500
36	505
37	509
38	514
39	518
40	523
41	528
42	532
43	537
44	542
45	546
46	551
47	556
48	561
49	566
50	572
51	577
52	582

ADVANCED	
Raw Score	Scale Score
53	586
54	594
55	600
56	606
57	613
58	619
59	626
60	633
61	641
62	648
63	656
64	665
65	673
66	683
67	692
68	703
69	714
70	725
71	738
72	752
73	767
74	785
75	804
76	828
77	858
78	898
79	956
80	970

2009 Grade 3 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0	21	22.5	184
0.5	30	23	188
1	35	23.5	193
1.5	38	24	198
2	40	24.5	202
2.5	42	25	207
3	43	25.5	212
3.5	44	26	216
4	45	26.5	220
4.5	46	27	225
5	47	27.5	229
5.5	48	28	233
6	48	28.5	238
6.5	49	29	242
7	50	29.5	246
7.5	50	30	250
8	51	30.5	254
8.5	51	31	259
9	52	31.5	263
9.5	52	32	267
10	53	32.5	271
10.5	53	33	275
11	53	33.5	279
11.5	54	34	283
12	57	34.5	287
12.5	65	35	291
13	73	35.5	295
13.5	80	36	299
14	87	36.5	303
14.5	94	37	307
15	100	37.5	311
15.5	107	38	315
16	113	38.5	319
16.5	119	39	323
17	125	39.5	327
17.5	131		
18	137		
18.5	142		
19	148		
19.5	153		
20	159		
20.5	164		
21	169		
21.5	174		
22	179		

BASIC	
Raw Score	Scale Score
40	330
40.5	338
41	344
41.5	350
42	356
42.5	362
43	368
43.5	374
44	380
44.5	386
45	393
45.5	399
46	405
46.5	411
47	417
47.5	424
48	430
48.5	436
49	443
49.5	449
50	455
50.5	462
51	468
51.5	474
52	481
52.5	487
53	494

PROFICIENT	
Raw Score	Scale Score
53.5	500
54	505
54.5	510
55	515
55.5	520
56	525
56.5	530
57	536
57.5	541
58	546
58.5	551
59	556
59.5	561
60	567
60.5	572
61	577
61.5	582
62	588
62.5	593
63	598
63.5	604
64	609
64.5	615
65	620
65.5	626
66	631
66.5	637
67	642
67.5	648

ADVANCED			
Raw Score	Scale Score	Raw Score	Scale Score
68	654	90.5	960
68.5	659	91	960
69	665	91.5	961
69.5	671	92	962
70	677	92.5	963
70.5	683	93	965
71	689	93.5	966
71.5	695	94	968
72	701	94.5	970
72.5	707	95	973
73	713	95.5	978
73.5	720	96	987
74	726		
74.5	732		
75	739		
75.5	746		
76	752		
76.5	759		
77	766		
77.5	773		
78	780		
78.5	787		
79	795		
79.5	802		
80	810		
80.5	818		
81	826		
81.5	834		
82	842		
82.5	851		
83	860		
83.5	869		
84	879		
84.5	888		
85	898		
85.5	909		
86	920		
86.5	931		
87	943		
87.5	955		
88	956		
88.5	957		
89	958		
89.5	958		
90	959		

2009 Grade 4 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	40
1	118
2	186
3	228
4	258
5	282
6	301
7	318
8	333
9	346
10	358
11	370
12	380
13	390
14	399
15	408
16	416
17	424
18	432
19	440
20	447
21	454
22	460
23	467
24	473
25	480
26	486
27	491

BASIC	
Raw Score	Scale Score
28	495
29	503
30	508
31	514
32	519
33	524
34	529
35	535
36	540
37	545
38	550
39	555

PROFICIENT	
Raw Score	Scale Score
40	559
41	564
42	569
43	574
44	579
45	584
46	589
47	594
48	599
49	604
50	609
51	614
52	619
53	624
54	630
55	635

ADVANCED	
Raw Score	Scale Score
56	640
57	646
58	651
59	657
60	663
61	669
62	675
63	681
64	688
65	695
66	703
67	710
68	719
69	728
70	738
71	748
72	760
73	774
74	789
75	807
76	829
77	857
78	895
79	956
80	969

2009 Grade 4 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0	21	22.5	198
0.5	30	23	203
1	35	23.5	209
1.5	38	24	215
2	40	24.5	220
2.5	42	25	226
3	43	25.5	231
3.5	44	26	237
4	45	26.5	242
4.5	46	27	248
5	47	27.5	253
5.5	48	28	258
6	49	28.5	264
6.5	49	29	269
7	50	29.5	274
7.5	50	30	280
8	51	30.5	285
8.5	51	31	290
9	52	31.5	295
9.5	52	32	300
10	53	32.5	306
10.5	53	33	311
11	53	33.5	316
11.5	54	34	321
12	55	34.5	326
12.5	63	35	331
13	72	35.5	337
13.5	80	36	342
14	87	36.5	347
14.5	95		
15	102		
15.5	109		
16	116		
16.5	123		
17	130		
17.5	137		
18	143		
18.5	150		
19	156		
19.5	162		
20	168		
20.5	174		
21	180		
21.5	186		
22	192		

BASIC	
Raw Score	Scale Score
37	354
37.5	357
38	362
38.5	367
39	372
39.5	377
40	382
40.5	388
41	393
41.5	398
42	403
42.5	408
43	413
43.5	418
44	423
44.5	428
45	433
45.5	438
46	443
46.5	448
47	453
47.5	458
48	463
48.5	468
49	473
49.5	478
50	483
50.5	488
51	493
51.5	498
52	503
52.5	508
53	513
53.5	518
54	523
54.5	528
55	533
55.5	538
56	544
56.5	549
57	554

PROFICIENT	
Raw Score	Scale Score
57.5	559
58	564
58.5	569
59	574
59.5	579
60	584
60.5	589
61	594
61.5	600
62	605
62.5	610
63	615
63.5	621
64	626
64.5	631
65	636
65.5	642
66	647
66.5	653
67	658
67.5	664
68	669
68.5	675
69	681
69.5	686
70	692
70.5	698
71	704
71.5	710
72	716
72.5	722
73	728
73.5	734
74	741

ADVANCED	
Raw Score	Scale Score
74.5	748
75	754
75.5	760
76	767
76.5	774
77	781
77.5	788
78	795
78.5	802
79	809
79.5	817
80	825
80.5	833
81	841
81.5	849
82	857
82.5	866
83	875
83.5	884
84	893
84.5	903
85	913
85.5	923
86	934
86.5	945
87	956
87.5	956
88	957
88.5	958
89	958
89.5	959
90	959
90.5	960
91	961
91.5	962
92	962
92.5	964
93	965
93.5	966
94	968
94.5	970
95	973
95.5	978
96	987

2009 Grade 5 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	58
1	153
2	221
3	262
4	292
5	316
6	337
7	355
8	371
9	386
10	400
11	412
12	424
13	435
14	446
15	456
16	466
17	476
18	485
19	494
20	503
21	511
22	519
23	527
24	535

BASIC	
Raw Score	Scale Score
25	544
26	550
27	557
28	564
29	571
30	577
31	584
32	590
33	597

PROFICIENT	
Raw Score	Scale Score
34	604
35	609
36	615
37	621
38	627
39	632
40	638
41	644
42	649
43	655
44	660
45	665
46	671
47	676
48	681
49	687
50	692

ADVANCED	
Raw Score	Scale Score
51	697
52	702
53	708
54	713
55	718
56	724
57	729
58	735
59	740
60	746
61	752
62	758
63	765
64	771
65	778
66	785
67	793
68	801
69	810
70	819
71	830
72	842
73	855
74	870
75	888
76	909
77	937
78	958
79	966
80	979

2009 Grade 5 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0	23	22.5	210
0.5	32	23	215
1	36	23.5	221
1.5	39	24	227
2	41	24.5	232
2.5	43	25	238
3	44	25.5	243
3.5	45	26	249
4	46	26.5	254
4.5	47	27	260
5	48	27.5	265
5.5	49	28	270
6	49	28.5	276
6.5	50	29	281
7	51	29.5	286
7.5	51	30	292
8	52	30.5	297
8.5	52	31	302
9	52	31.5	307
9.5	53	32	313
10	53	32.5	318
10.5	54	33	323
11	54	33.5	328
11.5	62	34	333
12	70	34.5	339
12.5	78	35	344
13	86	35.5	349
13.5	94	36	354
14	102	36.5	359
14.5	109	37	365
15	116	37.5	370
15.5	123	38	375
16	130		
16.5	137		
17	143		
17.5	150		
18	156		
18.5	162		
19	168		
19.5	175		
20	181		
20.5	187		
21	192		
21.5	198		
22	204		

BASIC	
Raw Score	Scale Score
38.5	382
39	385
39.5	390
40	396
40.5	401
41	406
41.5	411
42	416
42.5	421
43	426
43.5	431
44	437
44.5	442
45	447
45.5	452
46	457
46.5	462
47	467
47.5	472
48	477
48.5	482
49	487
49.5	492
50	497
50.5	502
51	508
51.5	513
52	518
52.5	523
53	528
53.5	533
54	538
54.5	543
55	548
55.5	553
56	558
56.5	563
57	568
57.5	573
58	578
58.5	583
59	588
59.5	593
60	598

PROFICIENT	
Raw Score	Scale Score
60.5	604
61	608
61.5	613
62	619
62.5	624
63	629
63.5	634
64	639
64.5	644
65	650
65.5	655
66	660
66.5	665
67	671
67.5	676
68	682
68.5	687
69	692
69.5	698
70	704
70.5	709
71	715
71.5	721
72	727
72.5	732
73	738
73.5	744
74	751
74.5	757
75	763
75.5	770
76	776
76.5	783
77	789

ADVANCED	
Raw Score	Scale Score
77.5	799
78	803
78.5	810
79	818
79.5	825
80	833
80.5	841
81	849
81.5	857
82	866
82.5	874
83	884
83.5	893
84	902
84.5	912
85	923
85.5	934
86	945
86.5	956
87	957
87.5	957
88	958
88.5	958
89	959
89.5	959
90	960
90.5	961
91	962
91.5	963
92	964
92.5	965
93	966
93.5	967
94	969
94.5	971
95	974
95.5	980
96	988

2009 Grade 6 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	85
1	198
2	265
3	307
4	337
5	362
6	382
7	400
8	416
9	430
10	443
11	455
12	466
13	476
14	486
15	495
16	503
17	512
18	519
19	527
20	534
21	540
22	547
23	553
24	559
25	565

BASIC	
Raw Score	Scale Score
26	569
27	576
28	581
29	586
30	592
31	597
32	602
33	606
34	611
35	616
36	621
37	625
38	630
39	635

PROFICIENT	
Raw Score	Scale Score
40	641
41	644
42	649
43	653
44	658
45	663
46	668
47	672
48	677
49	682
50	688
51	693
52	698
53	704
54	709
55	715

ADVANCED	
Raw Score	Scale Score
56	722
57	727
58	733
59	739
60	746
61	753
62	760
63	767
64	775
65	783
66	792
67	801
68	811
69	821
70	832
71	845
72	858
73	874
74	891
75	911
76	936
77	956
78	962
79	970
80	984

2009 Grade 6 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0	23	22.5	212
0.5	31	23	219
1	36	23.5	225
1.5	39	24	231
2	41	24.5	237
2.5	43	25	244
3	44	25.5	250
3.5	45	26	256
4	46	26.5	262
4.5	47	27	268
5	48	27.5	274
5.5	48	28	280
6	49	28.5	286
6.5	50	29	291
7	50	29.5	297
7.5	51	30	303
8	51	30.5	309
8.5	52	31	315
9	52	31.5	320
9.5	52	32	326
10	53	32.5	332
10.5	53	33	337
11	54	33.5	343
11.5	54	34	348
12	61	34.5	354
12.5	70	35	359
13	78	35.5	365
13.5	86	36	370
14	94	36.5	375
14.5	102	37	381
15	110	37.5	386
15.5	117	38	391
16	124	38.5	396
16.5	132	39	402
17	139	39.5	407
17.5	146	40	412
18	153		
18.5	160		
19	167		
19.5	173		
20	180		
20.5	187		
21	193		
21.5	200		
22	206		

BASIC	
Raw Score	Scale Score
40.5	417
41	422
41.5	428
42	433
42.5	438
43	443
43.5	448
44	453
44.5	458
45	463
45.5	468
46	473
46.5	478
47	483
47.5	488
48	493
48.5	498
49	503
49.5	508
50	513
50.5	518
51	523
51.5	528
52	533
52.5	538
53	543
53.5	548
54	553
54.5	558
55	564
55.5	569
56	574
56.5	579
57	584
57.5	590
58	595
58.5	600
59	605
59.5	611
60	616
60.5	621
61	627
61.5	632
62	638

PROFICIENT	
Raw Score	Scale Score
62.5	641
63	649
63.5	654
64	660
64.5	665
65	671
65.5	677
66	682
66.5	688
67	694
67.5	700
68	706
68.5	711
69	717
69.5	723
70	729
70.5	735
71	741
71.5	747
72	753
72.5	760
73	766
73.5	772
74	778
74.5	784
75	791
75.5	797
76	804
76.5	810
77	817

ADVANCED	
Raw Score	Scale Score
77.5	823
78	830
78.5	837
79	844
79.5	851
80	858
80.5	866
81	873
81.5	881
82	889
82.5	897
83	906
83.5	914
84	924
84.5	933
85	943
85.5	953
86	956
86.5	957
87	957
87.5	958
88	958
88.5	959
89	960
89.5	960
90	961
90.5	962
91	962
91.5	963
92	964
92.5	966
93	967
93.5	968
94	970
94.5	972
95	976
95.5	981
96	990

2009 Grade 7 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	184
1	296
2	363
3	403
4	432
5	455
6	475
7	492
8	508
9	521
10	534
11	546
12	557
13	567
14	577
15	586
16	595
17	604
18	612

BASIC	
Raw Score	Scale Score
19	622
20	627
21	635
22	642
23	649
24	656
25	662
26	668

PROFICIENT	
Raw Score	Scale Score
27	673
28	681
29	687
30	693
31	698
32	704
33	709
34	715
35	720
36	725
37	731
38	736
39	741
40	746
41	751
42	756
43	761

ADVANCED	
Raw Score	Scale Score
44	764
45	771
46	776
47	782
48	787
49	792
50	798
51	803
52	809
53	815
54	821
55	827
56	833
57	840
58	847
59	854
60	861
61	869
62	877
63	886
64	895
65	904
66	914
67	924
68	935
69	947
70	956
71	957
72	959
73	961
74	963
75	966
76	969
77	973
78	978
79	987
80	999

2009 Grade 7 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0	23	22.5	225
0.5	32	23	231
1	37	23.5	237
1.5	39	24	243
2	42	24.5	250
2.5	43	25	256
3	44	25.5	262
3.5	46	26	268
4	46	26.5	273
4.5	47	27	279
5	48	27.5	285
5.5	49	28	291
6	49	28.5	297
6.5	50	29	303
7	51	29.5	309
7.5	51	30	314
8	52	30.5	320
8.5	52	31	326
9	53	31.5	331
9.5	53	32	337
10	53	32.5	343
10.5	54	33	348
11	57	33.5	354
11.5	67	34	360
12	75	34.5	365
12.5	84	35	371
13	92	35.5	376
13.5	100	36	382
14	108	36.5	388
14.5	116	37	393
15	124	37.5	399
15.5	131	38	404
16	138	38.5	410
16.5	146	39	415
17	153	39.5	421
17.5	160		
18	167		
18.5	173		
19	180		
19.5	187		
20	193		
20.5	200		
21	206		
21.5	212		
22	219		

BASIC	
Raw Score	Scale Score
40	426
40.5	432
41	437
41.5	442
42	448
42.5	453
43	459
43.5	464
44	469
44.5	475
45	480
45.5	486
46	491
46.5	496
47	502
47.5	507
48	512
48.5	518
49	523
49.5	528
50	534
50.5	539
51	544
51.5	549
52	555
52.5	560
53	565
53.5	571
54	576
54.5	581
55	587
55.5	592
56	597
56.5	603
57	608
57.5	613
58	618
58.5	624
59	629
59.5	635
60	640
60.5	645
61	651
61.5	656
62	661
62.5	667

PROFICIENT	
Raw Score	Scale Score
63	673
63.5	678
64	683
64.5	689
65	694
65.5	700
66	705
66.5	711
67	717
67.5	722
68	728
68.5	734
69	739
69.5	745
70	751
70.5	757
71	763
71.5	769
72	775
72.5	781
73	787
73.5	793
74	799
74.5	806
75	812
75.5	818
76	825
76.5	832
77	838
77.5	845
78	852
78.5	859

ADVANCED	
Raw Score	Scale Score
79	867
79.5	873
80	881
80.5	889
81	896
81.5	904
82	912
82.5	921
83	929
83.5	938
84	947
84.5	956
85	956
85.5	957
86	957
86.5	958
87	958
87.5	959
88	959
88.5	960
89	960
89.5	961
90	962
90.5	962
91	963
91.5	964
92	965
92.5	966
93	967
93.5	968
94	970
94.5	972
95	975
95.5	981
96	989

2009 Grade 8 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	205
1	316
2	383
3	423
4	452
5	476
6	496
7	513
8	528
9	542
10	555
11	567
12	577
13	588
14	597
15	607
16	615
17	624
18	632
19	639
20	647

BASIC	
Raw Score	Scale Score
21	655
22	661
23	668
24	674
25	681
26	687
27	693

PROFICIENT	
Raw Score	Scale Score
28	700
29	705
30	710
31	716
32	721
33	727
34	732
35	738
36	743
37	748
38	753
39	758
40	764
41	769
42	774
43	779
44	784
45	790
46	795

ADVANCED	
Raw Score	Scale Score
47	802
48	806
49	811
50	817
51	822
52	828
53	834
54	840
55	846
56	853
57	859
58	866
59	873
60	881
61	888
62	897
63	905
64	914
65	923
66	933
67	944
68	955
69	957
70	958
71	960
72	962
73	964
74	966
75	969
76	972
77	976
78	982
79	991
80	999

2009 Grade 8 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
0	27	22.5	278
0.5	35	23	283
1	40	23.5	289
1.5	43	24	294
2	45	24.5	300
2.5	47	25	305
3	48	25.5	311
3.5	49	26	316
4	50	26.5	322
4.5	51	27	327
5	51	27.5	332
5.5	52	28	338
6	53	28.5	343
6.5	53	29	349
7	54	29.5	354
7.5	59	30	359
8	70	30.5	365
8.5	81	31	370
9	91	31.5	375
9.5	101	32	381
10	110	32.5	386
10.5	119	33	391
11	127	33.5	397
11.5	136	34	402
12	144	34.5	408
12.5	151	35	413
13	159	35.5	418
13.5	166	36	424
14	173	36.5	429
14.5	180	37	434
15	187	37.5	440
15.5	194	38	445
16	200	38.5	451
16.5	207	39	456
17	213	39.5	461
17.5	219	40	467
18	225	40.5	472
18.5	232	41	477
19	238	41.5	483
19.5	243	42	488
20	249	42.5	493
20.5	255	43	499
21	261		
21.5	266		
22	272		

BASIC	
Raw Score	Scale Score
43.5	507
44	510
44.5	515
45	520
45.5	526
46	531
46.5	536
47	542
47.5	547
48	552
48.5	558
49	563
49.5	568
50	574
50.5	579
51	584
51.5	590
52	595
52.5	600
53	606
53.5	611
54	616
54.5	622
55	627
55.5	632
56	638
56.5	643
57	648
57.5	654
58	659
58.5	665
59	670
59.5	675
60	681
60.5	686
61	692

PROFICIENT	
Raw Score	Scale Score
61.5	700
62	703
62.5	708
63	714
63.5	720
64	725
64.5	731
65	737
65.5	742
66	748
66.5	754
67	760
67.5	766
68	772
68.5	778
69	784
69.5	790
70	796
70.5	802
71	808
71.5	815
72	821
72.5	828
73	834
73.5	841
74	847
74.5	854
75	861
75.5	868
76	875
76.5	882
77	889
77.5	897
78	904

ADVANCED	
Raw Score	Scale Score
78.5	914
79	920
79.5	928
80	936
80.5	944
81	952
81.5	956
82	957
82.5	957
83	957
83.5	958
84	958
84.5	958
85	959
85.5	959
86	960
86.5	960
87	961
87.5	961
88	962
88.5	962
89	963
89.5	964
90	964
90.5	965
91	966
91.5	967
92	968
92.5	969
93	970
93.5	971
94	973
94.5	975
95	979
95.5	984
96	993

2009 Grade 5 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Science

BELOW BASIC	
Raw Score	Scale Score
0	3
1	15
2	22
3	38
4	52
5	63
6	72
7	80
8	87
9	94
10	99
11	105
12	110
13	114
14	119
15	123
16	127
17	130
18	134
19	138
20	141
21	144
22	147
23	150

BASIC	
Raw Score	Scale Score
24	154
25	156
26	159
27	162
28	165
29	167
30	170
31	172
32	175
33	178
34	180
35	182
36	185
37	187
38	190
39	192
40	194
41	197

PROFICIENT	
Raw Score	Scale Score
42	200
43	201
44	204
45	206
46	208
47	211
48	213
49	216
50	218
51	220
52	223
53	225
54	228
55	230
56	233
57	236
58	238
59	241
60	244
61	247

ADVANCED	
Raw Score	Scale Score
62	250
63	254
64	257
65	261
66	264
67	269
68	273
69	277
70	283
71	288
72	294
73	301
74	309
75	318
76	329
77	343
78	362
79	394
80	448

2009 Grade 7 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Science

BELOW BASIC	
Raw Score	Scale Score
0	2
1	7
2	10
3	11
4	18
5	32
6	43
7	53
8	62
9	70
10	77
11	84
12	90
13	96
14	101
15	106
16	111
17	116
18	121
19	125
20	129
21	133
22	137
23	141
24	145
25	148

BASIC	
Raw Score	Scale Score
26	152
27	155
28	158
29	161
30	164
31	167
32	170
33	173
34	176
35	179
36	182
37	185
38	187
39	190
40	193
41	195
42	198

PROFICIENT	
Raw Score	Scale Score
43	200
44	203
45	206
46	209
47	212
48	214
49	217
50	220
51	223
52	226
53	229
54	232
55	235
56	238
57	241
58	244
59	248

ADVANCED	
Raw Score	Scale Score
60	250
61	255
62	259
63	263
64	267
65	272
66	276
67	281
68	286
69	292
70	298
71	304
72	311
73	319
74	328
75	338
76	351
77	367
78	389
79	426
80	489