



Arkansas Comprehensive Testing, Assessment, and Accountability Program

Arkansas Augmented Benchmark Examinations Raw To Scale Score Conversion Tables April 2010 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 2010 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 2010 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.

**2010 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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2010 Grade 3 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	38
1	112
2	178
3	218
4	247
5	270
6	290
7	306
8	321
9	334
10	346
11	357
12	367
13	377
14	386
15	394
16	402

BASIC	
Raw Score	Scale Score
17	409
18	417
19	424
20	431
21	438
22	444
23	451
24	457
25	463
26	469
27	474
28	480
29	486
30	491
31	496

PROFICIENT	
Raw Score	Scale Score
32	500
33	507
34	512
35	517
36	521
37	526
38	531
39	536
40	541
41	545
42	550
43	554
44	559
45	564
46	568
47	573
48	577
49	582

ADVANCED	
Raw Score	Scale Score
50	586
51	591
52	596
53	601
54	606
55	611
56	616
57	621
58	626
59	631
60	637
61	642
62	648
63	654
64	660
65	667
66	674
67	681
68	689
69	698
70	707
71	718
72	731
73	745
74	763
75	785
76	813
77	851
78	907
79	960
80	976

2010 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	22	22.5	198
0.5	31	23	203
1	36	23.5	208
1.5	39	24	213
2	41	24.5	217
2.5	43	25	222
3	44	25.5	226
3.5	45	26	231
4	46	26.5	235
4.5	47	27	240
5	48	27.5	244
5.5	49	28	248
6	50	28.5	253
6.5	50	29	257
7	51	29.5	261
7.5	51	30	265
8	52	30.5	270
8.5	52	31	274
9	53	31.5	278
9.5	53	32	282
10	54	32.5	286
10.5	54	33	290
11	61	33.5	294
11.5	69	34	299
12	77	34.5	303
12.5	84	35	307
13	91	35.5	311
13.5	98	36	315
14	105	36.5	319
14.5	111	37	323
15	118	37.5	327
15.5	124		
16	130		
16.5	136		
17	141		
17.5	147		
18	153		
18.5	158		
19	163		
19.5	169		
20	174		
20.5	179		
21	184		
21.5	189		
22	194		

BASIC	
Raw Score	Scale Score
38	330
38.5	338
39	344
39.5	350
40	356
40.5	361
41	367
41.5	373
42	379
42.5	385
43	391
43.5	397
44	403
44.5	409
45	415
45.5	421
46	427
46.5	433
47	439
47.5	445
48	451
48.5	457
49	463
49.5	469
50	475
50.5	481
51	487
51.5	493

PROFICIENT	
Raw Score	Scale Score
52	500
52.5	504
53	509
53.5	513
54	518
54.5	523
55	527
55.5	532
56	537
56.5	542
57	546
57.5	551
58	556
58.5	561
59	565
59.5	570
60	575
60.5	580
61	585
61.5	589
62	594
62.5	599
63	604
63.5	609
64	614
64.5	619
65	624
65.5	629
66	635
66.5	640
67	645
67.5	650

ADVANCED			
Raw Score	Scale Score	Raw Score	Scale Score
68	654	90.5	959
68.5	661	91	960
69	666	91.5	961
69.5	671	92	962
70	677	92.5	963
70.5	682	93	964
71	688	93.5	965
71.5	694	94	967
72	699	94.5	969
72.5	705	95	972
73	711	95.5	978
73.5	717	96	986
74	723		
74.5	729		
75	735		
75.5	741		
76	748		
76.5	754		
77	761		
77.5	767		
78	774		
78.5	781		
79	788		
79.5	795		
80	803		
80.5	810		
81	818		
81.5	826		
82	834		
82.5	843		
83	851		
83.5	860		
84	869		
84.5	879		
85	889		
85.5	899		
86	910		
86.5	921		
87	933		
87.5	945		
88	956		
88.5	957		
89	957		
89.5	958		
90	958		

2010 Grade 4 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	44
1	126
2	195
3	236
4	267
5	291
6	312
7	330
8	345
9	359
10	372
11	384
12	395
13	406
14	416
15	425
16	434
17	442
18	450
19	458
20	466
21	473
22	480
23	487

BASIC	
Raw Score	Scale Score
24	495
25	501
26	507
27	514
28	520
29	526
30	532
31	538
32	544
33	550
34	555

PROFICIENT	
Raw Score	Scale Score
35	559
36	567
37	572
38	578
39	583
40	589
41	594
42	599
43	604
44	610
45	615
46	620
47	625
48	630
49	635

ADVANCED	
Raw Score	Scale Score
50	640
51	646
52	651
53	656
54	661
55	666
56	672
57	677
58	682
59	688
60	694
61	699
62	705
63	711
64	718
65	725
66	732
67	739
68	747
69	756
70	765
71	775
72	787
73	800
74	814
75	832
76	853
77	880
78	919
79	959
80	972

2010 Grade 4 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC						BASIC		PROFICIENT		ADVANCED			
Raw Score	Scale Score		Raw Score	Scale Score		Raw Score	Scale Score	Raw Score	Scale Score	Raw Score	Scale Score	Raw Score	Scale Score
0	25		22.5	270		30.5	354	51	559	70.5	748	93	966
0.5	33		23	276		31	361	51.5	561	71	754	93.5	967
1	38		23.5	282		31.5	366	52	566	71.5	759	94	969
1.5	41		24	287		32	371	52.5	571	72	765	94.5	971
2	43		24.5	293		32.5	376	53	575	72.5	770	95	974
2.5	45		25	298		33	381	53.5	580	73	776	95.5	979
3	46		25.5	304		33.5	386	54	585	73.5	782	96	987
3.5	48		26	309		34	391	54.5	590	74	787		
4	49		26.5	314		34.5	396	55	594	74.5	793		
4.5	49		27	320		35	401	55.5	599	75	799		
5	50		27.5	325		35.5	406	56	604	75.5	805		
5.5	51		28	330		36	411	56.5	609	76	811		
6	52		28.5	335		36.5	416	57	613	76.5	817		
6.5	52		29	341		37	421	57.5	618	77	824		
7	53		29.5	346		37.5	426	58	623	77.5	830		
7.5	53		30	351		38	431	58.5	628	78	836		
8	54					38.5	436	59	633	78.5	843		
8.5	61					39	441	59.5	637	79	850		
9	72					39.5	446	60	642	79.5	857		
9.5	82					40	451	60.5	647	80	864		
10	92					40.5	456	61	652	80.5	871		
10.5	102					41	461	61.5	657	81	878		
11	111					41.5	465	62	662	81.5	885		
11.5	120					42	470	62.5	666	82	893		
12	129					42.5	475	63	671	82.5	901		
12.5	137					43	480	63.5	676	83	909		
13	146					43.5	485	64	681	83.5	917		
13.5	153					44	490	64.5	686	84	926		
14	161					44.5	494	65	691	84.5	935		
14.5	169					45	499	65.5	696	85	944		
15	176					45.5	504	66	701	85.5	953		
15.5	183					46	509	66.5	706	86	956		
16	190					46.5	514	67	711	86.5	957		
16.5	197					47	518	67.5	717	87	957		
17	203					47.5	523	68	722	87.5	958		
17.5	210					48	528	68.5	727	88	958		
18	216					48.5	533	69	732	88.5	959		
18.5	223					49	537	69.5	737	89	959		
19	229					49.5	542	70	743	89.5	960		
19.5	235					50	547			90	960		
20	241					50.5	552			90.5	961		
20.5	247									91	962		
21	253									91.5	962		
21.5	259									92	963		
22	265									92.5	964		

2010 Grade 5 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	78
1	189
2	255
3	295
4	323
5	346
6	366
7	382
8	397
9	410
10	422
11	433
12	443
13	453
14	462
15	470
16	478
17	485
18	493
19	499
20	506
21	512
22	518
23	524
24	530
25	536
26	541

BASIC	
Raw Score	Scale Score
27	544
28	552
29	557
30	562
31	567
32	572
33	577
34	582
35	586
36	591
37	596
38	601

PROFICIENT	
Raw Score	Scale Score
39	604
40	611
41	616
42	621
43	626
44	631
45	637
46	642
47	648
48	653
49	659
50	664
51	670
52	676
53	682
54	688

ADVANCED	
Raw Score	Scale Score
55	697
56	701
57	708
58	715
59	722
60	729
61	736
62	744
63	752
64	760
65	769
66	778
67	788
68	798
69	809
70	821
71	834
72	849
73	865
74	883
75	905
76	930
77	956
78	961
79	970
80	984

2010 Grade 5 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC			
Raw Score	Scale Score		
0	24		
0.5	32		
1	37		
1.5	40		
2	43		
2.5	44		
3	45		
3.5	47		
4	48		
4.5	48		
5	49		
5.5	50		
6	51		
6.5	51		
7	52		
7.5	52		
8	53		
8.5	53		
9	54		
9.5	60		
10	70		
10.5	80		
11	89		
11.5	98		
12	107		
12.5	116		
13	124		
13.5	132		
14	140		
14.5	147		
15	155		
15.5	162		
16	169		
16.5	176		
17	183		
17.5	190		
18	196		
18.5	203		
19	209		
19.5	216		
20	222		
20.5	228		
21	234		
21.5	240		
22	246		

BASIC	
Raw Score	Scale Score
34.5	382
35	387
35.5	392
36	397
36.5	402
37	407
37.5	412
38	417
38.5	422
39	427
39.5	432
40	437
40.5	442
41	446
41.5	451
42	456
42.5	461
43	466
43.5	471
44	476
44.5	480
45	485
45.5	490
46	495
46.5	500
47	504
47.5	509
48	514
48.5	519
49	523
49.5	528
50	533
50.5	538
51	542
51.5	547
52	552
52.5	556
53	561
53.5	566
54	571
54.5	575
55	580
55.5	585
56	590
56.5	594
57	599

PROFICIENT	
Raw Score	Scale Score
57.5	604
58	608
58.5	613
59	618
59.5	623
60	627
60.5	632
61	637
61.5	642
62	647
62.5	651
63	656
63.5	661
64	666
64.5	671
65	676
65.5	681
66	686
66.5	691
67	696
67.5	701
68	706
68.5	712
69	717
69.5	722
70	728
70.5	733
71	738
71.5	744
72	749
72.5	755
73	761
73.5	767
74	772
74.5	778
75	785
75.5	791

ADVANCED	
Raw Score	Scale Score
76	799
76.5	803
77	810
77.5	816
78	823
78.5	830
79	837
79.5	844
80	852
80.5	859
81	867
81.5	875
82	883
82.5	892
83	900
83.5	909
84	919
84.5	928
85	938
85.5	949
86	956
86.5	957
87	957
87.5	958
88	958
88.5	959
89	959
89.5	960
90	961
90.5	961
91	962
91.5	963
92	964
92.5	965
93	966
93.5	968
94	970
94.5	972
95	975
95.5	980
96	989

2010 Grade 6 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	115
1	228
2	295
3	336
4	365
5	389
6	408
7	424
8	438
9	450
10	461
11	471
12	480
13	489
14	497
15	504
16	512
17	519
18	525
19	532
20	539
21	545
22	551
23	557
24	563

BASIC	
Raw Score	Scale Score
25	569
26	575
27	581
28	587
29	593
30	598
31	604
32	609
33	615
34	620
35	626
36	631
37	636

PROFICIENT	
Raw Score	Scale Score
38	641
39	647
40	652
41	657
42	662
43	667
44	672
45	677
46	682
47	687
48	693
49	698
50	703
51	708
52	713
53	719

ADVANCED	
Raw Score	Scale Score
54	722
55	729
56	735
57	740
58	746
59	752
60	758
61	764
62	770
63	777
64	784
65	791
66	799
67	807
68	815
69	824
70	834
71	845
72	857
73	870
74	885
75	903
76	925
77	953
78	959
79	967
80	981

2010 Grade 6 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Literacy

BELOW BASIC						BASIC		PROFICIENT		ADVANCED			
Raw Score	Scale Score		Raw Score	Scale Score		Raw Score	Scale Score	Raw Score	Scale Score	Raw Score	Scale Score	Raw Score	Scale Score
0	16		22.5	229		36.5	417	57	641	73	823	95.5	981
0.5	25		23	236		37	422	57.5	649	73.5	827	96	990
1	30		23.5	244		37.5	428	58	655	74	833		
1.5	33		24	251		38	433	58.5	660	74.5	839		
2	36		24.5	258		38.5	439	59	665	75	845		
2.5	38		25	266		39	445	59.5	671	75.5	852		
3	39		25.5	273		39.5	451	60	676	76	858		
3.5	41		26	280		40	457	60.5	682	76.5	864		
4	42		26.5	287		40.5	463	61	687	77	871		
4.5	43		27	294		41	468	61.5	692	77.5	877		
5	44		27.5	301		41.5	474	62	698	78	884		
5.5	45		28	308		42	480	62.5	703	78.5	891		
6	46		28.5	314		42.5	485	63	709	79	898		
6.5	47		29	321		43	491	63.5	714	79.5	905		
7	48		29.5	328		43.5	497	64	719	80	912		
7.5	48		30	334		44	502	64.5	725	80.5	919		
8	49		30.5	341		44.5	508	65	730	81	926		
8.5	50		31	347		45	513	65.5	736	81.5	934		
9	50		31.5	354		45.5	519	66	741	82	942		
9.5	51		32	360		46	524	66.5	747	82.5	950		
10	51		32.5	366		46.5	530	67	753	83	956		
10.5	52		33	373		47	536	67.5	758	83.5	956		
11	52		33.5	379		47.5	541	68	764	84	957		
11.5	53		34	385		48	546	68.5	769	84.5	957		
12	53		34.5	391		48.5	552	69	775	85	957		
12.5	54		35	397		49	557	69.5	781	85.5	958		
13	60		35.5	404		49.5	563	70	786	86	958		
13.5	71		36	410		50	568	70.5	792	86.5	959		
14	81					50.5	574	71	798	87	959		
14.5	91					51	579	71.5	804	87.5	960		
15	101					51.5	585	72	809	88	960		
15.5	111					52	590	72.5	815	88.5	961		
16	120					52.5	595			89	961		
16.5	130					53	601			89.5	962		
17	139					53.5	606			90	962		
17.5	148					54	612			90.5	963		
18	156					54.5	617			91	964		
18.5	165					55	622			91.5	965		
19	173					55.5	628			92	966		
19.5	182					56	633			92.5	967		
20	190					56.5	638			93	968		
20.5	198									93.5	969		
21	206									94	971		
21.5	213									94.5	973		
22	221									95	976		

2010 Grade 7 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	209
1	321
2	387
3	427
4	456
5	479
6	499
7	516
8	531
9	544
10	556
11	567
12	578
13	588
14	597
15	605
16	613

BASIC	
Raw Score	Scale Score
17	622
18	629
19	636
20	642
21	649
22	655
23	661
24	667

PROFICIENT	
Raw Score	Scale Score
25	673
26	678
27	684
28	689
29	695
30	700
31	705
32	710
33	715
34	720
35	725
36	730
37	735
38	740
39	744
40	749
41	754
42	759

ADVANCED	
Raw Score	Scale Score
43	764
44	768
45	773
46	777
47	782
48	787
49	791
50	796
51	801
52	805
53	810
54	815
55	820
56	825
57	830
58	835
59	840
60	845
61	851
62	857
63	863
64	869
65	875
66	882
67	890
68	897
69	906
70	915
71	925
72	936
73	949
74	956
75	958
76	961
77	964
78	969
79	977
80	990

2010 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	21	22.5	233
0.5	30	23	239
1	35	23.5	246
1.5	38	24	252
2	40	24.5	258
2.5	42	25	265
3	43	25.5	271
3.5	44	26	277
4	45	26.5	283
4.5	46	27	289
5	47	27.5	295
5.5	48	28	301
6	49	28.5	307
6.5	49	29	313
7	50	29.5	318
7.5	50	30	324
8	51	30.5	330
8.5	52	31	336
9	52	31.5	341
9.5	53	32	347
10	53	32.5	352
10.5	53	33	358
11	54	33.5	363
11.5	60	34	369
12	70	34.5	374
12.5	79	35	380
13	88	35.5	385
13.5	97	36	390
14	106	36.5	395
14.5	115	37	401
15	123	37.5	406
15.5	131	38	411
16	139	38.5	416
16.5	147	39	421
17	155		
17.5	163		
18	170		
18.5	177		
19	185		
19.5	192		
20	199		
20.5	206		
21	213		
21.5	219		
22	226		

BASIC	
Raw Score	Scale Score
39.5	426
40	432
40.5	437
41	442
41.5	447
42	452
42.5	456
43	461
43.5	466
44	471
44.5	476
45	481
45.5	485
46	490
46.5	495
47	500
47.5	504
48	509
48.5	514
49	518
49.5	523
50	527
50.5	532
51	536
51.5	541
52	545
52.5	550
53	555
53.5	559
54	564
54.5	568
55	573
55.5	577
56	582
56.5	586
57	591
57.5	595
58	600
58.5	604
59	609
59.5	614
60	618
60.5	623
61	628
61.5	632
62	637
62.5	642
63	647
63.5	652
64	657
64.5	662
65	667

PROFICIENT	
Raw Score	Scale Score
65.5	673
66	677
66.5	682
67	688
67.5	693
68	698
68.5	704
69	709
69.5	715
70	721
70.5	727
71	733
71.5	739
72	745
72.5	751
73	757
73.5	764
74	770
74.5	777
75	784
75.5	791
76	798
76.5	805
77	812
77.5	819
78	827
78.5	834
79	842
79.5	850
80	858

ADVANCED	
Raw Score	Scale Score
80.5	867
81	874
81.5	883
82	892
82.5	901
83	910
83.5	919
84	929
84.5	939
85	949
85.5	956
86	957
86.5	957
87	958
87.5	958
88	959
88.5	959
89	960
89.5	960
90	961
90.5	962
91	963
91.5	963
92	964
92.5	965
93	967
93.5	968
94	970
94.5	972
95	975
95.5	980
96	989

2010 Grade 8 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Mathematics

BELOW BASIC	
Raw Score	Scale Score
0	224
1	336
2	401
3	441
4	469
5	492
6	511
7	527
8	541
9	554
10	566
11	577
12	587
13	596
14	605
15	613
16	621
17	628
18	635
19	642
20	649

BASIC	
Raw Score	Scale Score
21	655
22	661
23	667
24	673
25	678
26	684
27	689
28	694

PROFICIENT	
Raw Score	Scale Score
29	700
30	705
31	710
32	714
33	719
34	724
35	729
36	733
37	738
38	743
39	747
40	752
41	757
42	761
43	766
44	770
45	775
46	780
47	784
48	789
49	794
50	799

ADVANCED	
Raw Score	Scale Score
51	802
52	809
53	814
54	819
55	824
56	830
57	835
58	841
59	846
60	852
61	859
62	865
63	872
64	879
65	886
66	894
67	902
68	910
69	920
70	930
71	941
72	953
73	956
74	958
75	961
76	963
77	967
78	972
79	980
80	993

2010 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	24	22.5	310
0.5	33	23	316
1	38	23.5	322
1.5	41	24	327
2	43	24.5	333
2.5	45	25	338
3	46	25.5	344
3.5	48	26	349
4	49	26.5	354
4.5	50	27	359
5	50	27.5	365
5.5	51	28	370
6	52	28.5	375
6.5	53	29	380
7	53	29.5	385
7.5	54	30	389
8	67	30.5	394
8.5	81	31	399
9	93	31.5	404
9.5	105	32	408
10	117	32.5	413
10.5	128	33	417
11	138	33.5	422
11.5	148	34	427
12	158	34.5	431
12.5	167	35	435
13	176	35.5	440
13.5	185	36	444
14	193	36.5	449
14.5	202	37	453
15	210	37.5	457
15.5	218	38	461
16	225	38.5	466
16.5	233	39	470
17	240	39.5	474
17.5	247	40	478
18	254	40.5	482
18.5	260	41	486
19	267	41.5	490
19.5	274	42	494
20	280	42.5	498
20.5	286	43	502
21	292		
21.5	298		
22	304		

BASIC	
Raw Score	Scale Score
43.5	507
44	510
44.5	514
45	518
45.5	522
46	526
46.5	530
47	534
47.5	538
48	542
48.5	546
49	549
49.5	553
50	557
50.5	561
51	565
51.5	569
52	573
52.5	577
53	581
53.5	585
54	589
54.5	593
55	597
55.5	601
56	605
56.5	609
57	613
57.5	617
58	621
58.5	625
59	629
59.5	633
60	638
60.5	642
61	646
61.5	650
62	655
62.5	659
63	664
63.5	668
64	673
64.5	677
65	682
65.5	686
66	691
66.5	696

PROFICIENT	
Raw Score	Scale Score
67	700
67.5	706
68	711
68.5	716
69	721
69.5	726
70	731
70.5	737
71	742
71.5	747
72	753
72.5	759
73	764
73.5	770
74	776
74.5	782
75	789
75.5	795
76	801
76.5	808
77	815
77.5	821
78	828
78.5	836
79	843
79.5	851
80	858
80.5	866
81	874
81.5	883
82	891
82.5	900
83	910

ADVANCED	
Raw Score	Scale Score
83.5	914
84	929
84.5	939
85	950
85.5	956
86	957
86.5	957
87	958
87.5	958
88	959
88.5	959
89	960
89.5	961
90	961
90.5	962
91	963
91.5	964
92	965
92.5	966
93	967
93.5	969
94	970
94.5	973
95	976
95.5	981
96	990

2010 Grade 5 Arkansas Augmented Benchmark Examination Raw to Scale Score Conversion Tables for Science

BELOW BASIC	
Raw Score	Scale Score
0	5
1	17
2	27
3	46
4	60
5	71
6	81
7	89
8	96
9	102
10	108
11	114
12	119
13	123
14	128
15	132
16	136
17	140
18	144
19	147
20	151

BASIC	
Raw Score	Scale Score
21	154
22	157
23	160
24	163
25	166
26	169
27	171
28	174
29	177
30	179
31	181
32	184
33	186
34	188
35	190
36	192
37	195
38	197
39	199

PROFICIENT	
Raw Score	Scale Score
40	200
41	203
42	205
43	207
44	209
45	211
46	213
47	215
48	217
49	219
50	221
51	223
52	225
53	227
54	229
55	232
56	234
57	236
58	238
59	241
60	243
61	246
62	248

ADVANCED	
Raw Score	Scale Score
63	250
64	254
65	257
66	261
67	264
68	268
69	272
70	276
71	281
72	287
73	293
74	300
75	309
76	319
77	332
78	351
79	382
80	435

2010 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	9
3	11
4	12
5	25
6	37
7	47
8	55
9	63
10	71
11	78
12	84
13	90
14	95
15	101
16	106
17	111
18	116
19	120
20	124
21	129
22	133
23	137
24	140
25	144
26	148

BASIC	
Raw Score	Scale Score
27	152
28	155
29	158
30	161
31	165
32	168
33	171
34	174
35	177
36	180
37	183
38	185
39	188
40	191
41	194
42	196

PROFICIENT	
Raw Score	Scale Score
43	200
44	202
45	204
46	207
47	210
48	212
49	215
50	218
51	221
52	223
53	226
54	229
55	232
56	235
57	238
58	241
59	244
60	247

ADVANCED	
Raw Score	Scale Score
61	250
62	254
63	257
64	261
65	265
66	269
67	274
68	278
69	284
70	289
71	295
72	302
73	309
74	318
75	328
76	340
77	355
78	377
79	413
80	475