

New Non-Reading Intelligence Tests: Linking NNRIT scores to NRIT norms

The revision of the **Non-Reading Intelligence Tests (NRIT)** involved removing a number of questions that utilised outdated and unfamiliar words and contexts, as well as updating vocabulary elsewhere to improve children's engagement. The **New Non-Reading Intelligence Tests (NNRIT)** are therefore much more accessible and appropriate to today's pupils, while also being shorter – reducing the administration time and making marking quicker and easier.

For pupils in the below-average and average range – the pupils for whom the *non-reading* aspect of the tests was primarily intended, and most relevant – the three original tests and three new tests are almost identical in difficulty. More able pupils tend to score much nearer the test ceiling, however. As a result, their performance is condensed into a narrower range which tends to *over-state* their actual ability.

The conversion tables below enable schools to use the updated tests with pupils across the full ability range, and to reference the *original NRIT* standardised scores directly, thereby maintaining continuity with their previous **NRIT** data. Standardised scores obtained in this way give a more even spread over the full ability range that is close to the score distribution provided by the original **NRIT** tables, across the same chronological age ranges.

Please note, however, that this procedure is *not* recommended for schools using the tests solely with lower-ability pupils and those for whom reading and/or language issues may be a barrier to demonstrating their true underlying ability: for all such pupils, the new **NNRIT** norms are more appropriate.

C.T. McCarty

TABLE 1: NNRIT 1 original norms (for use with the revised test)

Score	Age in years and completed months															Score
	6:4 to 6:5	6:6 to 6:7	6:8 to 6:9	6:10 to 6:11	7:0 to 7:1	7:2 to 7:3	7:4 to 7:5	7:6 to 7:7	7:8 to 7:9	7:10 to 7:11	8:0 to 8:1	8:2 to 8:3				
9	71	71	70													9
10	73	72	71	70												10
11	74	73	72	71	71	70										11
12	77	76	75	74	73	72	70									12
13	79	77	76	75	74	73	71									13
14	80	79	77	76	75	74	72	70								14
15	82	81	79	78	77	75	74	73	73	72	71	70				15
16	83	82	81	79	78	76	75	73	73	72	71	70				16
17	84	83	82	80	79	77	75	74	74	73	72	71	70			17
18	87	85	84	82	81	80	77	76	76	75	74	73	73			18
19	88	86	85	83	82	81	79	78	77	76	75	74	74			19
20	89	87	86	84	83	81	80	79	78	76	75	74	74			20
21	90	89	88	86	85	83	82	81	79	78	77	76	76			21
22	91	90	88	87	86	84	83	81	80	79	78	76	76			22
23	92	91	89	88	86	85	84	82	81	80	78	77	77			23
24	94	92	91	89	88	86	85	84	82	81	80	79	79			24
25	94	93	91	90	89	87	86	84	83	82	81	79	79			25
26	95	94	92	91	89	88	86	85	84	82	81	80	80			26
27	96	95	94	92	91	89	88	86	85	84	82	81	81			27
28	97	96	94	93	91	90	87	87	86	84	83	82	82			28
29	98	96	95	94	92	90	89	88	86	85	84	82	82			29
30	100	98	96	95	93	92	90	89	88	86	85	84	84			30
31	100	99	97	95	94	92	91	90	88	87	85	84	84			31
32	101	99	98	96	95	93	92	90	89	87	86	85	85			32
33	102	101	99	97	96	94	93	91	90	88	87	86	86			33
34	103	101	100	98	97	95	93	92	91	89	88	87	87			34
35	104	102	100	99	97	96	94	93	91	90	88	87	87			35

continued

Table 1: NNIRIT 1 continued

Score	Age in years and completed months													Score
	6:4 to 6:5	6:6 to 6:7	6:8 to 6:9	6:10 to 6:11	7:0 to 7:1	7:2 to 7:3	7:4 to 7:5	7:6 to 7:7	7:8 to 7:9	7:10 to 7:11	8:0 to 8:1	8:2 to 8:3		
36	105	104	102	100	99	97	95	94	92	91	90	88	36	
37	106	104	103	101	99	98	96	95	93	92	90	89	37	
38	107	105	103	102	100	98	97	95	94	92	91	90	38	
39	108	107	105	103	101	100	98	97	95	94	92	91	39	
40	109	107	106	104	102	100	99	97	96	94	93	92	40	
41	110	108	107	105	103	101	100	98	96	95	94	92	41	
42	112	110	108	106	105	103	101	100	98	97	95	94	42	
43	113	111	109	107	106	104	102	100	99	97	96	95	43	
44	114	112	110	108	106	105	103	101	100	98	97	95	44	
45	116	114	112	110	108	107	105	103	102	100	99	97	45	
46	117	115	113	111	109	108	106	104	103	101	100	98	46	
47	119	117	115	113	111	109	108	105	104	102	101	99	47	
48	121	119	117	115	113	111	109	108	106	104	103	101	48	
49	122	120	118	116	114	112	110	109	107	105	104	102	49	
50	123	122	119	117	115	113	112	110	108	107	105	104	50	
51	126	124	122	120	118	116	114	112	111	109	108	106	51	
52	128	126	124	122	120	118	116	114	112	110	109	107	52	
53	129	127	125	123	121	119	117	115	113	112	110	109	53	
54			128	126	124	122	120	118	117	115	113	112	54	
55			130	128	126	124	122	120	118	117	115	113	55	
56				130	128	126	124	122	120	119	117	115	56	
57					128	130	128	126	124	122	121	119	57	
58								129	127	125	123	121	58	
59											130	128	59	
60												130	60	

SCORE 130+ IN THIS AREA

TABLE 2: NNRIT 2 original norms (for use with the revised test)

Score	Age in years and completed months															Score	
	7:4 to 7:5	7:6 to 7:7	7:8 to 7:9	7:10 to 7:11	8:0 to 8:1	8:2 to 8:3	8:4 to 8:5	8:6 to 8:7	8:8 to 8:9	8:10 to 8:11	9:0 to 9:1	9:2 to 9:3					
12	70																12
13	72	71	70														13
14	74	73	72	70													14
15	77	76	75	74	73	72	70										15
16	79	78	76	75	74	73	72	71	70								16
17	81	79	78	77	76	75	73	72	71	70							17
18	83	82	81	79	78	77	76	75	74	73	72	71					18
19	85	83	82	81	79	78	77	76	75	74	73	72	71				19
20	86	85	83	82	81	79	78	77	76	75	74	73	72				20
21	88	87	85	84	83	82	80	79	78	77	76	75	74				21
22	89	88	86	85	84	83	81	80	79	78	77	76	75				22
23	90	89	87	86	85	84	82	81	80	79	78	77	76				23
24	92	91	89	88	87	85	84	83	82	81	80	79	78				24
25	93	92	90	89	88	86	85	84	83	82	81	80	79				25
26	94	93	91	90	89	87	86	84	83	82	81	80	79				26
27	96	95	93	92	90	89	88	87	85	84	83	82	81				27
28	97	96	94	93	91	90	89	87	86	85	84	83	82				28
29	98	97	95	94	92	91	90	88	87	86	85	84	83				29
30	100	98	97	95	94	93	91	90	89	88	86	85	84				30
31	101	99	98	96	95	94	92	91	90	88	87	86	85				31
32	102	100	99	97	96	94	93	92	90	89	88	87	86				32
33	104	102	101	99	97	96	95	93	92	91	90	89	88				33
34	105	103	101	100	98	97	96	94	93	92	90	89	88				34
35	106	104	102	101	99	98	96	95	94	92	91	90	89				35

continued

Table 2: NNRIIT 2 continued

Score	Age in years and completed months											Score	
	7:4 to 7:5	7:6 to 7:7	7:8 to 7:9	7:10 to 7:11	8:0 to 8:1	8:2 to 8:3	8:4 to 8:5	8:6 to 8:7	8:8 to 8:9	8:10 to 8:11	9:0 to 9:1		9:2 to 9:3
36	107	106	104	103	101	100	98	97	95	94	93	92	36
37	108	107	105	104	102	100	99	98	96	95	94	92	37
38	109	108	106	104	103	101	100	98	97	96	94	93	38
39	111	110	108	106	105	103	102	100	99	97	96	95	39
40	112	111	109	107	106	104	103	101	99	98	97	96	40
41	113	112	110	108	107	105	103	102	100	99	98	96	41
42	116	114	112	110	108	107	105	104	102	101	99	98	42
43	117	115	113	111	110	108	106	105	103	102	101	99	43
44	118	116	115	113	111	109	108	106	104	103	102	100	44
45	121	119	117	115	113	112	110	108	107	105	104	102	45
46	122	120	118	116	115	113	111	109	108	106	105	104	46
47	123	122	120	118	116	114	112	111	109	108	106	105	47
48	126	124	122	121	119	117	115	113	112	110	108	107	48
49	128	126	124	122	120	118	116	114	113	111	110	108	49
50	129	127	125	123	121	119	118	116	114	112	111	110	50
51		130	128	127	125	123	121	119	117	115	114	112	51
52			130	128	126	124	122	121	119	117	115	114	52
53				130	128	126	124	122	121	119	117	116	53
54						130	129	127	125	123	121	120	54
55								129	127	126	124	122	55
56									130	128	127	125	56
57												130	57
58													58
59													59
60													60

TABLE 3: NNRIT 3 original norms (for use with the revised test)

Score	Age in years and completed months															Score	
	8:4 to 8:5	8:6 to 8:7	8:8 to 8:9	8:10 to 8:11	9:0 to 9:1	9:2 to 9:3	9:4 to 9:5	9:6 to 9:7	9:8 to 9:9	9:10 to 9:11	10:0 to 10:1	10:2 to 10:3	10:4 to 10:5	10:6 to 10:7	10:8 to 10:9		10:10 to 10:11
13	70																13
14	72	70															14
15	75	73	72	71	70												15
16	76	75	74	73	72	71	70										16
17	78	76	75	74	73	72	71	70									17
18	80	79	78	77	76	75	74	73	72	71	70						18
19	82	80	79	78	77	76	75	74	73	72	71	70					19
20	83	82	80	79	78	76	75	74	73	72	71	70			70		20
21	85	84	83	82	80	79	78	77	76	75	74	73	72	72	72	71	21
22	87	85	84	83	81	80	79	78	77	76	75	74	73	73	73	72	22
23	88	86	85	84	83	81	80	79	78	77	76	75	74	74	74	73	23
24	90	89	87	86	85	84	82	81	80	79	78	77	76	76	75	75	24
25	91	90	88	87	86	85	84	82	81	80	79	79	77	77	76	75	25
26	92	91	90	88	87	86	85	83	82	81	80	79	79	78	77	76	26
27	94	93	92	90	89	88	87	85	84	83	82	81	80	80	79	78	27
28	95	94	93	91	90	89	88	86	85	84	83	82	81	80	80	79	28
29	96	95	94	92	91	90	89	87	86	85	84	83	82	81	80	80	29
30	98	97	96	94	93	92	90	89	88	87	86	85	84	83	82	81	30
31	100	98	97	95	94	93	91	90	89	88	87	86	85	84	83	82	31
32	101	99	98	96	95	93	92	91	90	89	88	87	86	85	84	83	32
33	103	101	100	98	97	95	94	93	92	91	89	88	87	86	85	85	33
34	104	102	101	99	98	96	95	94	93	91	90	89	88	87	86	85	34
35	105	103	102	100	99	97	96	95	93	92	91	90	89	88	87	86	35

continued

Table 3: NNIRIT 3 continued

Score	Age in years and completed months														Score		
	8:4 to 8:5	8:6 to 8:7	8:8 to 8:9	8:10 to 8:11	9:0 to 9:1	9:2 to 9:3	9:4 to 9:5	9:6 to 9:7	9:8 to 9:9	9:10 to 9:11	10:0 to 10:1	10:2 to 10:3	10:4 to 10:5	10:6 to 10:7		10:8 to 10:9	10:10 to 10:11
36	106	105	104	102	101	99	98	96	95	94	93	92	91	90	89	88	36
37	107	106	104	103	102	100	99	97	96	95	94	93	92	90	89	88	37
38	108	107	105	104	102	101	100	99	97	96	95	93	92	91	90	89	38
39	110	109	107	106	104	103	101	100	99	98	96	95	94	93	92	91	39
40	111	110	108	107	105	104	102	101	100	99	97	96	95	94	93	92	40
41	112	111	109	108	106	105	103	102	101	99	98	97	96	94	93	92	41
42	115	113	111	109	108	106	105	104	102	101	100	98	97	96	95	94	42
43	116	114	112	111	109	107	106	105	103	102	101	99	98	97	96	95	43
44	117	115	113	112	110	108	107	105	104	103	102	100	99	98	96	95	44
45	119	118	116	114	112	110	109	107	106	105	103	102	101	99	98	97	45
46	121	119	117	115	113	112	110	108	107	106	104	103	102	100	99	98	46
47	122	120	118	117	115	113	111	110	108	107	105	104	103	101	100	99	47
48	124	123	121	119	117	116	114	112	110	109	107	106	105	103	102	101	48
49	126	124	122	121	119	117	115	113	112	110	108	107	106	104	103	102	49
50	128	126	124	122	120	118	117	115	113	111	110	108	107	105	104	103	50
51		129	126	124	123	121	120	118	116	114	112	111	109	108	107	105	51
52			129	127	125	123	121	119	117	116	114	112	111	109	108	107	52
53				128	126	124	122	121	119	117	115	114	112	111	109	108	53
54					130	128	126	124	122	121	119	117	115	114	112	111	54
55						130	128	126	124	122	121	119	117	115	114	112	55
56							130	128	126	124	122	121	119	117	115	114	56
57										129	127	125	123	121	119	118	57
58											130	128	126	124	122	120	58
59													130	127	125	123	59
60														127	125	130	60