

Spache Diagnostic Reading Scales
Grade 2 /Year 3
Fast Track Project Technical Report
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Citation

Instrument

Spache, G. D. (1963). *Diagnostic Reading Scales Examiner's Manual*. Monterey, CA: CTB/McGraw-Hill.

Reports

Rains, C. (2006). *Spache Diagnostic Reading Scales, Grade 2 /Year 3* (Fast Track Project Technical Report). Available from the Fast Track Project Web site, <http://www.fasttrackproject.org>

Corrigan, A. (2003). *Spache Diagnostic Reading Scales, Grade 3 /Year 4* (Fast Track Project Technical Report). Available from the Fast Track Project Web site, <http://www.fasttrackproject.org>

Maumary-Gremaud, A. & Miller-Johnson, S. (1996). *Spache Diagnostic Reading Scales Year 3/Grade 2* (Fast Track Project Technical Report). Durham, NC: Duke University.

Data Sources

Unscored: C3F

Scored: SPC3

I. Scale Description

The administration of the Spache measure was started in the summer of 1993. The Spache Diagnostic Reading Scale was published by G.D. Spache in 1963, and has since then been revised in 1972 and 1981. The 1981 revision was used as part of the Fast Track interview. The Spache measure is a set of individually administered tests for the evaluation of oral and silent reading abilities and auditory comprehension. The measure consists of five subtests: Recognition of Initial Consonants, Recognition of Final Consonants, Recognition of Initial Consonant Auditorily, Word Recognition, and Stories.

Subtests administered differed from year to year and between cohorts in a year, as outlined in the chart in the Recommendations section of this report. In year 3 cohort 1, two subtests were administered: Word Recognition and Stories.

Word Recognition is comprised of two word lists in year 3. Word Lists 1 and 2 are list of words of increasing difficulty that the child is asked to read aloud. The child is then presented with Stories. He/she is asked to read them out loud, and the interviewer records the number of errors in reading. Afterward,

the child is asked questions about the content of the stories to assess his/her comprehension of the content. The child receives separate scores for Oral Reading and Comprehension from the Stories subtest.

Administration

Word Lists –The interviewer instructs the child to point to each word on a list and read it. The interviewer awards points for each word as “correctly read (1)” or “incorrect (0).” A word is correctly read if the child recognizes the word within approximately 5 seconds. If the child can read the word, but takes longer than 5 seconds, the score is “incorrect (0)” for that word. If the child does not recognize the word, or partly recognizes the word, the word score is zero. When a child misreads the same sound repeatedly (e.g., *show* read as *sow*; *shame* read as *same*), a zero is coded for each misreading. The subtest ends when the child misses five words consecutively. If the child completes the first word list without five consecutive mistakes, the interviewer instructs the child to begin the second word list.

Stories–In year 3, there are six stories for the child to read aloud to the interviewer and then to answer reading comprehension questions. The stories get progressively more complex, with Story 1 using the simplest vocabulary and being quite short in length (5 sentences) to Story 6 using more complex vocabulary and sentence structure.

- Oral Reading Ability

Interviewers recorded errors made by children in reading each of the stories aloud. The following criteria define errors:

- Omissions: words, parts of words, or groups of words that a child leaves out.
- Additions: words, word parts, or groups of words that a child adds to the text.
- Substitutions: a word or group of words substituted in the story text. For example, if the text says: “...would play,” the child reads: “...would *have played*.”
- Repetitions: two or more words repeated.
- Reversals: reversal of letters in a word or word sequence (e.g., reversing “hop up on” as “hop *on up*”).

Only one error is recorded for each mistake. Each error adds one point to the error tally for the story. If a child misreads a word several times, it counts as a single error. When a child spontaneously corrects a mistake (except for repetitions), the mistake is expunged. Hesitations by the child are not considered errors.

The interviewer is instructed to wait about five seconds while the child tries to read a word in a story, before telling the child to skip the word and continue. The interviewer may not correct the child, or pronounce any words. When the child is finished reading, the interviewer tallies the errors and records the number of errors on his/her copy of the story page.

- Reading Comprehension

Each story is followed by several reading comprehension questions. The interviewer reads each question and waits for the child’s answer. The answer must come from the story information and not from the child’s prior knowledge (even if prior knowledge produces an accurate response). Correct answers receive one point; incorrect answers receive zero. In responding to a single question, a child may answer several other questions as well. In this case, the child gets credit for all the correct answers.

If a child correctly reads a word or phrase in the story, and the word is also the answer to a comprehension question, the child gets credit for the correct answer. If a question requires two answers

(with appropriate prompting from the interviewer) and the child only provides one answer, a half point is recorded.

The Stories section is completed when the respondent either completes all of the stories or has failed a story. When a story is failed, the interviewer ends the measure.

II. Report Sample

This report contains data collected on the first cohort for year 3. The data include a high-risk control sample (n = 155) and a normative sample (n = 387) for a total N = 463, including overlap. Of the 463 subjects, 38 are missing all responses, including 31 from the normative group (6 from Durham, 10 from Washington, 7 from Pennsylvania, and 8 from Nashville), and 13 from the control group (4 from Durham, 2 from Nashville, 3 from Pennsylvania, and 4 from Washington), with overlap between the normative and control groups.

III. Scaling

Scales and scores include:

- *Word List 1 Score*: Sum of points for correct words on Word List 1; 50 is the highest possible score
- *Word List 2 Score*: Sum of points for correct words on Word List 2; 40 is the highest possible score
- *Word List Total Sum Score*: Word List 1 score + Word List 2 score; 90 is the highest possible score
- *Oral Reading Scaled Story Score*: For each story, $Score = 1 - (\# \text{ of errors} / 25)$; 1 is the highest possible score
No respondent can receive a score less than 0 for any story. If the score on a story is “no pass”, scores for subsequent stories are not used.
- *Oral Reading Scaled Sum Score*: Sum of Oral Reading Scaled Story Scores for the stories. For example, if a respondent reads two stories with 5 errors on Story 1 and 15 errors on Story 2, then the score is $.8 + .4 = 1.2$.
- *Reading Comprehension Sum Score*: Sum of the points for all stories on reading comprehension; 43 is the highest possible score

For each story, pass/fail standards for Oral Reading and Reading Comprehension are based on the “average number of errors made by pupils reading at this level” (Spache, 1963). The cutoff scores are below:

Pass/Fail Cutoffs for Stories

	Oral Reading	Reading Comprehension
	Maximum Errors Allowed	Minimum Correct Answers Needed
Story 1	9	4
Story 2	12	4
Story 3	9	4
Story 4	10	4
Story 5	12	5
Story 6	9	5

In year 3, administration was supposed to continue until a story is failed, at which time the subtest was discontinued. However, examination of the data indicated inconsistencies in administration. Therefore, the following rules were used in these instances as follows:

1. Continuation of administration when should have stopped

Scoring rule: if any story is failed, then no credit is given to subsequent stories

2. Discontinuation of administration when should have continued

Scoring rule: if any story is passed but no following story is scored, then all story data for the subject is set to missing

The alpha coefficients of the summary scores for the normative sample and control samples are:

	Normative Sample	Control Sample
Word List Total Sum Score (C3FWLS)	.91	.92
Oral Reading Scaled Sum Score (C3FSOS)	.94	.94
Reading Comprehension Sum Score (C3FRCS)	.52	.34

While the levels of reliability for the *Word List Sum Score* and the *Oral Reading Scaled Sum Score* are high for both the normative and control samples, the levels of reliability for the *Reading Comprehension Sum Score* were low for both samples.

IV. Differences Between Groups

T-tests of means on the scores between the normative (excluding the overlap) and control samples yielded the following results:

Comparison of Means for Normative and Control for SPC Y3								
Variable	Label	Normative		Control		DF	t Value	Pr > t
		Mean	Std Dev	Mean	Std Dev			
C3FRCS	Spache Reading Comprehension sum score	27.03	14.73	21.11	15.05	410	-3.84	0.0001
C3FSO1	Spache Oral Reading scaled score story 1	0.92	0.13	0.86	0.17	410	-3.71	0.0002
C3FSO2	Spache Oral Reading scaled score story 2	0.74	0.36	0.61	0.41	410	-3.39	0.0008
C3FSO3	Spache Oral Reading scaled score story 3	0.69	0.39	0.55	0.43	410	-3.12	0.0019
C3FSO4	Spache Oral Reading scaled score story 4	0.64	0.41	0.51	0.45	410	-2.96	0.0032
C3FSO5	Spache Oral Reading scaled score story 5	0.51	0.40	0.36	0.40	410	-3.69	0.0003
C3FSO6	Spache Oral Reading scaled score story 6	0.48	0.43	0.31	0.41	410	-3.81	0.0002
C3FSOS	Spache Oral Reading scaled sum score	3.97	1.92	3.20	2.04	410	-3.79	0.0002
C3FWL1	Spache Word List 1 sum score	45.42	8.58	41.61	11.94	423	-3.77	0.0002
C3FWL2	Spache Word List 2 sum score	28.68	11.59	24.25	14.04	375	-3.21	0.0014
C3FWLS	Spache Word List Total sum score	71.66	20.71	61.76	25.83	423	-4.27	<.0001

All of the scores indicated significant differences between the normative and the control samples. In all cases, the respondents in the normative sample scored higher than those in the control sample.

V. Recommendations for Use

An examination of the summary scores for *Word List 1 Summary Score*, *Word List 2 Summary Score*, the *Word List Summary Score*, the *Oral Reading Summary Score*, and the *Reading Comprehension Summary Scores* showed that all of these scores, except for *Word List 1*, were normally distributed for both the normative and the control samples. *Word List 1 Summary Score* was negatively skewed for both samples.

Researchers should note that different versions of the measure were given in different years of the study and to different cohorts. The chart below outlines what was given to each cohort in the years that the Spache Diagnostic Reading Scales were used by the Fast Track Project:

Year	Cohorts	Subtests administered
1	3	Initial Consonants Final Consonants Initial Consonants Recognized Auditorily Word List 1
2	2, 3	Initial Consonants Final Consonants Initial Consonants Recognized Auditorily Word List 1 Stories 1-3
3	1, 2, 3	Word List 1 Word List 2 Stories 1-6
4	1, 2, 3	Word List 1 Word List 2 Stories 1-8

Finally, researchers should note that, as the respondents progressed through the measure, that, if they failed a section such as Story 4, they did not receive Stories 5 and 6.

Overall, these scales should be useful, depending on the construct of interest.

VI. Item and Scale Means and SDs

Items, Year 3, Control Sample

Descriptive Statistics - Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWA1	Word List 1: look	141	0.96	0.19	0.00	1.00
C3FWA2	Word List 1: come	141	0.87	0.33	0.00	1.00
C3FWA3	Word List 1: in	141	0.99	0.12	0.00	1.00
C3FWA4	Word List 1: the	141	0.97	0.17	0.00	1.00
C3FWA5	Word List 1: you	141	0.96	0.19	0.00	1.00
C3FWA6	Word List 1: one	139	0.97	0.17	0.00	1.00
C3FWA7	Word List 1: she	139	0.94	0.23	0.00	1.00
C3FWA8	Word List 1: mother	139	0.88	0.32	0.00	1.00
C3FWA9	Word List 1: me	138	0.93	0.25	0.00	1.00
C3FWA10	Word List 1: yellow	138	0.99	0.12	0.00	1.00
C3FWA11	Word List 1: pig	138	0.94	0.23	0.00	1.00
C3FWA12	Word List 1: it	138	0.96	0.20	0.00	1.00
C3FWA13	Word List 1: big	138	0.95	0.22	0.00	1.00
C3FWA14	Word List 1: milk	138	0.91	0.29	0.00	1.00
C3FWA15	Word List 1: dog	138	0.98	0.15	0.00	1.00
C3FWA16	Word List 1: tree	139	0.91	0.28	0.00	1.00
C3FWA17	Word List 1: are	139	0.91	0.29	0.00	1.00
C3FWA18	Word List 1: day	139	0.91	0.28	0.00	1.00
C3FWA19	Word List 1: run	138	0.95	0.22	0.00	1.00
C3FWA20	Word List 1: all	137	0.93	0.25	0.00	1.00
C3FWA21	Word List 1: father	137	0.85	0.35	0.00	1.00
C3FWA22	Word List 1: door	137	0.88	0.32	0.00	1.00
C3FWA23	Word List 1: like	136	0.90	0.30	0.00	1.00
C3FWA24	Word List 1: ball	136	0.88	0.32	0.00	1.00
C3FWA25	Word List 1: eat	135	0.92	0.27	0.00	1.00
C3FWA26	Word List 1: good	135	0.96	0.21	0.00	1.00
C3FWA27	Word List 1: girl	134	0.93	0.25	0.00	1.00
C3FWA28	Word List 1: name	133	0.91	0.29	0.00	1.00
C3FWA29	Word List 1: away	134	0.85	0.36	0.00	1.00
C3FWA30	Word List 1: this	134	0.93	0.26	0.00	1.00
C3FWA31	Word List 1: bed	134	0.90	0.30	0.00	1.00
C3FWA32	Word List 1: call	133	0.88	0.33	0.00	1.00
C3FWA33	Word List 1: time	133	0.89	0.31	0.00	1.00
C3FWA34	Word List 1: sleep	133	0.83	0.37	0.00	1.00
C3FWA35	Word List 1: fish	131	0.94	0.24	0.00	1.00
C3FWA36	Word List 1: morning	131	0.81	0.39	0.00	1.00
C3FWA37	Word List 1: seen	129	0.82	0.38	0.00	1.00

Descriptive Statistics - Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWA38	Word List 1: children	128	0.80	0.40	0.00	1.00
C3FWA39	Word List 1: live	127	0.91	0.29	0.00	1.00
C3FWA40	Word List 1: around	128	0.78	0.42	0.00	1.00
C3FWA41	Word List 1: barn	127	0.72	0.45	0.00	1.00
C3FWA42	Word List 1: other	126	0.79	0.41	0.00	1.00
C3FWA43	Word List 1: under	121	0.88	0.32	0.00	1.00
C3FWA44	Word List 1: cry	121	0.79	0.41	0.00	1.00
C3FWA45	Word List 1: chicken	117	0.87	0.34	0.00	1.00
C3FWA46	Word List 1: breakfast	116	0.75	0.43	0.00	1.00
C3FWA47	Word List 1: chair	116	0.74	0.44	0.00	1.00
C3FWA48	Word List 1: rain	116	0.84	0.36	0.00	1.00
C3FWA49	Word List 1: asleep	115	0.87	0.34	0.00	1.00
C3FWA50	Word List 1: peep	113	0.75	0.43	0.00	1.00
C3FWB1	Word List 2: fly	118	0.95	0.22	0.00	1.00
C3FWB2	Word List 2: road	118	0.79	0.41	0.00	1.00
C3FWB3	Word List 2: horse	118	0.78	0.42	0.00	1.00
C3FWB4	Word List 2: farmer	118	0.71	0.45	0.00	1.00
C3FWB5	Word List 2: know	118	0.82	0.38	0.00	1.00
C3FWB6	Word List 2: smoke	116	0.84	0.37	0.00	1.00
C3FWB7	Word List 2: ground	113	0.83	0.38	0.00	1.00
C3FWB8	Word List 2: right	113	0.88	0.33	0.00	1.00
C3FWB9	Word List 2: fair	113	0.57	0.50	0.00	1.00
C3FWB10	Word List 2: believe	113	0.67	0.47	0.00	1.00
C3FWB11	Word List 2: workman	110	0.91	0.29	0.00	1.00
C3FWB12	Word List 2: stamp	109	0.72	0.45	0.00	1.00
C3FWB13	Word List 2: drink	107	0.87	0.34	0.00	1.00
C3FWB14	Word List 2: shoes	105	0.84	0.37	0.00	1.00
C3FWB15	Word List 2: witch	105	0.78	0.42	0.00	1.00
C3FWB16	Word List 2: inch	105	0.71	0.45	0.00	1.00
C3FWB17	Word List 2: strong	104	0.73	0.45	0.00	1.00
C3FWB18	Word List 2: midnight	104	0.62	0.49	0.00	1.00
C3FWB19	Word List 2: quickly	103	0.69	0.47	0.00	1.00
C3FWB20	Word List 2: turkey	100	0.69	0.46	0.00	1.00
C3FWB21	Word List 2: handle	96	0.68	0.47	0.00	1.00
C3FWB22	Word List 2: battle	89	0.65	0.48	0.00	1.00
C3FWB23	Word List 2: forgotten	83	0.80	0.41	0.00	1.00
C3FWB24	Word List 2: slice	82	0.73	0.45	0.00	1.00
C3FWB25	Word List 2: different	79	0.92	0.27	0.00	1.00
C3FWB26	Word List 2: speed	78	0.85	0.36	0.00	1.00

Descriptive Statistics - Control Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWB27	Word List 2: skate	78	0.86	0.35	0.00	1.00
C3FWB28	Word List 2: bridge	77	0.71	0.45	0.00	1.00
C3FWB29	Word List 2: quarter	76	0.80	0.40	0.00	1.00
C3FWB30	Word List 2: single	76	0.74	0.44	0.00	1.00
C3FWB31	Word List 2: cleaned	76	0.84	0.37	0.00	1.00
C3FWB32	Word List 2: drawn	75	0.67	0.47	0.00	1.00
C3FWB33	Word List 2: either	71	0.68	0.47	0.00	1.00
C3FWB34	Word List 2: crank	72	0.81	0.40	0.00	1.00
C3FWB35	Word List 2: twilight	71	0.54	0.50	0.00	1.00
C3FWB36	Word List 2: review	71	0.80	0.40	0.00	1.00
C3FWB37	Word List 2: chapter	69	0.87	0.34	0.00	1.00
C3FWB38	Word List 2: tongue	68	0.62	0.49	0.00	1.00
C3FWB39	Word List 2: crawl	68	0.85	0.36	0.00	1.00
C3FWB40	Word List 2: guard	68	0.81	0.40	0.00	1.00
C3FOR1	Oral Reading & Comp. St1 Oral	141	3.50	4.27	0.00	21.00
C3FOR2	Oral Reading & Comp. St1 Comp	141	4.38	1.75	0.00	6.00
C3FOR3	Oral Reading & Comp. St2 Oral	102	3.97	4.43	0.00	19.00
C3FOR4	Oral Reading & Comp. St2 Comp	102	5.67	1.36	1.00	7.50
C3FOR5	Oral Reading & Comp. St3 Oral	90	3.33	3.57	0.00	17.00
C3FOR6	Oral Reading & Comp. St3 Comp	90	6.16	0.98	3.00	7.00
C3FOR7	Oral Reading & Comp. St4 Oral	82	3.18	3.65	0.00	18.00
C3FOR8	Oral Reading & Comp. St4 Comp	82	5.34	1.42	1.00	7.00
C3FOR9	Oral Reading & Comp. St5 Oral	69	6.62	6.01	0.00	20.00
C3FOR10	Oral Reading & Comp. St5 Comp	69	6.52	1.50	0.50	8.00
C3FOR11	Oral Reading & Comp. St6 Oral	52	4.08	3.39	0.00	14.00
C3FOR12	Oral Reading & Comp. St6 Comp	52	6.52	1.51	2.00	8.00

Items, Year 3, Normative Sample

Descriptive Statistics - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWA1	Word List 1: look	350	0.99	0.12	0.00	1.00
C3FWA2	Word List 1: come	350	0.92	0.28	0.00	1.00
C3FWA3	Word List 1: in	350	1.00	0.05	0.00	1.00
C3FWA4	Word List 1: the	350	1.00	0.05	0.00	1.00
C3FWA5	Word List 1: you	350	0.98	0.13	0.00	1.00
C3FWA6	Word List 1: one	350	0.98	0.14	0.00	1.00
C3FWA7	Word List 1: she	350	0.97	0.17	0.00	1.00
C3FWA8	Word List 1: mother	350	0.93	0.26	0.00	1.00
C3FWA9	Word List 1: me	350	0.97	0.17	0.00	1.00
C3FWA10	Word List 1: yellow	350	0.99	0.08	0.00	1.00
C3FWA11	Word List 1: pig	350	0.96	0.20	0.00	1.00
C3FWA12	Word List 1: it	350	0.97	0.17	0.00	1.00
C3FWA13	Word List 1: big	350	0.96	0.20	0.00	1.00
C3FWA14	Word List 1: milk	350	0.93	0.26	0.00	1.00
C3FWA15	Word List 1: dog	350	0.99	0.11	0.00	1.00
C3FWA16	Word List 1: tree	356	0.93	0.25	0.00	1.00
C3FWA17	Word List 1: are	356	0.92	0.27	0.00	1.00
C3FWA18	Word List 1: day	354	0.95	0.21	0.00	1.00
C3FWA19	Word List 1: run	353	0.95	0.21	0.00	1.00
C3FWA20	Word List 1: all	353	0.96	0.19	0.00	1.00
C3FWA21	Word List 1: father	352	0.91	0.29	0.00	1.00
C3FWA22	Word List 1: door	351	0.93	0.25	0.00	1.00
C3FWA23	Word List 1: like	351	0.91	0.28	0.00	1.00
C3FWA24	Word List 1: ball	351	0.94	0.23	0.00	1.00
C3FWA25	Word List 1: eat	349	0.97	0.18	0.00	1.00
C3FWA26	Word List 1: good	349	0.98	0.14	0.00	1.00
C3FWA27	Word List 1: girl	348	0.95	0.21	0.00	1.00
C3FWA28	Word List 1: name	347	0.94	0.23	0.00	1.00
C3FWA29	Word List 1: away	347	0.83	0.38	0.00	1.00
C3FWA30	Word List 1: this	348	0.93	0.26	0.00	1.00
C3FWA31	Word List 1: bed	348	0.94	0.24	0.00	1.00
C3FWA32	Word List 1: call	344	0.93	0.26	0.00	1.00
C3FWA33	Word List 1: time	344	0.93	0.26	0.00	1.00
C3FWA34	Word List 1: sleep	344	0.91	0.29	0.00	1.00
C3FWA35	Word List 1: fish	341	0.97	0.18	0.00	1.00
C3FWA36	Word List 1: morning	340	0.88	0.33	0.00	1.00
C3FWA37	Word List 1: seen	339	0.85	0.36	0.00	1.00
C3FWA38	Word List 1: children	339	0.85	0.36	0.00	1.00

Descriptive Statistics - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWA39	Word List 1: live	339	0.90	0.30	0.00	1.00
C3FWA40	Word List 1: around	338	0.84	0.37	0.00	1.00
C3FWA41	Word List 1: barn	332	0.77	0.42	0.00	1.00
C3FWA42	Word List 1: other	330	0.81	0.39	0.00	1.00
C3FWA43	Word List 1: under	321	0.92	0.27	0.00	1.00
C3FWA44	Word List 1: cry	319	0.90	0.31	0.00	1.00
C3FWA45	Word List 1: chicken	317	0.91	0.29	0.00	1.00
C3FWA46	Word List 1: breakfast	315	0.87	0.34	0.00	1.00
C3FWA47	Word List 1: chair	316	0.86	0.34	0.00	1.00
C3FWA48	Word List 1: rain	315	0.90	0.29	0.00	1.00
C3FWA49	Word List 1: asleep	314	0.90	0.30	0.00	1.00
C3FWA50	Word List 1: peep	312	0.85	0.36	0.00	1.00
C3FWB1	Word List 2: fly	316	0.98	0.14	0.00	1.00
C3FWB2	Word List 2: road	316	0.88	0.32	0.00	1.00
C3FWB3	Word List 2: horse	316	0.87	0.33	0.00	1.00
C3FWB4	Word List 2: farmer	317	0.80	0.40	0.00	1.00
C3FWB5	Word List 2: know	316	0.90	0.31	0.00	1.00
C3FWB6	Word List 2: smoke	315	0.90	0.30	0.00	1.00
C3FWB7	Word List 2: ground	313	0.86	0.35	0.00	1.00
C3FWB8	Word List 2: right	312	0.95	0.23	0.00	1.00
C3FWB9	Word List 2: fair	312	0.66	0.47	0.00	1.00
C3FWB10	Word List 2: believe	313	0.77	0.42	0.00	1.00
C3FWB11	Word List 2: workman	309	0.91	0.28	0.00	1.00
C3FWB12	Word List 2: stamp	307	0.78	0.42	0.00	1.00
C3FWB13	Word List 2: drink	306	0.89	0.32	0.00	1.00
C3FWB14	Word List 2: shoes	299	0.91	0.29	0.00	1.00
C3FWB15	Word List 2: witch	298	0.81	0.39	0.00	1.00
C3FWB16	Word List 2: inch	298	0.77	0.42	0.00	1.00
C3FWB17	Word List 2: strong	298	0.78	0.41	0.00	1.00
C3FWB18	Word List 2: midnight	297	0.70	0.46	0.00	1.00
C3FWB19	Word List 2: quickly	297	0.75	0.43	0.00	1.00
C3FWB20	Word List 2: turkey	286	0.83	0.37	0.00	1.00
C3FWB21	Word List 2: handle	280	0.73	0.45	0.00	1.00
C3FWB22	Word List 2: battle	274	0.64	0.48	0.00	1.00
C3FWB23	Word List 2: forgotten	268	0.79	0.41	0.00	1.00
C3FWB24	Word List 2: slice	268	0.73	0.45	0.00	1.00
C3FWB25	Word List 2: different	264	0.92	0.27	0.00	1.00
C3FWB26	Word List 2: speed	261	0.81	0.39	0.00	1.00
C3FWB27	Word List 2: skate	260	0.89	0.32	0.00	1.00

Descriptive Statistics - Normative Sample						
Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWB28	Word List 2: bridge	260	0.74	0.44	0.00	1.00
C3FWB29	Word List 2: quarter	258	0.76	0.43	0.00	1.00
C3FWB30	Word List 2: single	258	0.73	0.45	0.00	1.00
C3FWB31	Word List 2: cleaned	255	0.84	0.36	0.00	1.00
C3FWB32	Word List 2: drawn	253	0.64	0.48	0.00	1.00
C3FWB33	Word List 2: either	244	0.61	0.49	0.00	1.00
C3FWB34	Word List 2: crank	243	0.71	0.45	0.00	1.00
C3FWB35	Word List 2: twilight	242	0.45	0.50	0.00	1.00
C3FWB36	Word List 2: review	239	0.78	0.42	0.00	1.00
C3FWB37	Word List 2: chapter	226	0.89	0.31	0.00	1.00
C3FWB38	Word List 2: tongue	223	0.65	0.48	0.00	1.00
C3FWB39	Word List 2: crawl	221	0.80	0.40	0.00	1.00
C3FWB40	Word List 2: guard	220	0.70	0.46	0.00	1.00
C3FOR1	Oral Reading & Comp. St1 Oral	344	2.47	3.48	0.00	20.00
C3FOR2	Oral Reading & Comp. St1 Comp	344	4.68	1.59	0.00	7.00
C3FOR3	Oral Reading & Comp. St2 Oral	276	3.25	4.49	0.00	35.00
C3FOR4	Oral Reading & Comp. St2 Comp	276	5.75	1.33	0.00	7.50
C3FOR5	Oral Reading & Comp. St3 Oral	247	2.57	2.69	0.00	15.00
C3FOR6	Oral Reading & Comp. St3 Comp	247	6.47	0.78	3.00	7.00
C3FOR7	Oral Reading & Comp. St4 Oral	233	2.70	2.96	0.00	16.00
C3FOR8	Oral Reading & Comp. St4 Comp	233	5.76	1.36	0.50	7.00
C3FOR9	Oral Reading & Comp. St5 Oral	212	5.66	4.91	0.00	22.00
C3FOR10	Oral Reading & Comp. St5 Comp	212	6.71	1.41	0.00	8.00
C3FOR11	Oral Reading & Comp. St6 Oral	181	4.18	3.77	0.00	20.00
C3FOR12	Oral Reading & Comp. St6 Comp	181	6.73	1.49	0.00	8.00

Subscales, Year 3, Control Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWL1	Spache Word List 1 sum score	142	41.606	11.941	0.000	50.000
C3FWL2	Spache Word List 2 sum score	118	24.254	14.038	0.000	40.000
C3FWLS	Spache Word List Total sum score	142	61.761	25.830	0.000	90.000
C3FSOS	Spache Oral Reading scaled sum score	141	3.198	2.040	0.160	6.000
C3FRCS	Spache Reading Comprehension sum score	141	21.110	15.046	0.000	42.000
C3FSO1	Spache Oral Reading scaled score story 1	141	0.860	0.171	0.160	1.000
C3FSO2	Spache Oral Reading scaled score story 2	141	0.609	0.406	0.000	1.000
C3FSO3	Spache Oral Reading scaled score story 3	141	0.553	0.433	0.000	1.000
C3FSO4	Spache Oral Reading scaled score story 4	141	0.508	0.446	0.000	1.000
C3FSO5	Spache Oral Reading scaled score story 5	141	0.360	0.405	0.000	1.000
C3FSO6	Spache Oral Reading scaled score story 6	141	0.309	0.413	0.000	1.000

Subscales, Year 3, Normative Sample

Variable	Label	N	Mean	Std Dev	Minimum	Maximum
C3FWL1	Spache Word List 1 sum score	356	44.511	9.288	7.000	50.000
C3FWL2	Spache Word List 2 sum score	317	27.924	12.169	0.000	40.000
C3FWLS	Spache Word List Total sum score	356	69.376	22.246	7.000	90.000
C3FSOS	Spache Oral Reading scaled sum score	343	3.772	1.998	0.200	6.000
C3FRCS	Spache Reading Comprehension sum score	343	25.587	15.187	0.000	43.000
C3FSO1	Spache Oral Reading scaled score story 1	343	0.901	0.139	0.200	1.000
C3FSO2	Spache Oral Reading scaled score story 2	343	0.701	0.378	0.000	1.000
C3FSO3	Spache Oral Reading scaled score story 3	343	0.646	0.414	0.000	1.000
C3FSO4	Spache Oral Reading scaled score story 4	343	0.606	0.428	0.000	1.000
C3FSO5	Spache Oral Reading scaled score story 5	343	0.478	0.407	0.000	1.000
C3FSO6	Spache Oral Reading scaled score story 6	343	0.440	0.431	0.000	1.000

VII. Subscale Correlations

Subscale, Year 3, Report Sample

Pearson Correlation Coefficients Prob > r under H0: Rho=0 Number of Observations											
	C3Fwl1	C3Fwl2	C3Fwls	C3Fsos	C3Frcs	C3Fso1	C3Fso2	C3Fso3	C3Fso4	C3Fso5	C3Fso6
C3Fwl1 Spache Word List 1 sum score	1.000 425	0.621 0.000 377	0.902 0.000 425	0.667 0.000 412	0.644 0.000 412	0.799 0.000 412	0.677 0.000 412	0.629 0.000 412	0.601 0.000 412	0.551 0.000 412	0.497 0.000 412
C3Fwl2 Spache Word List 2 sum score	0.621 0.000 377	1.000 377	0.959 0.000 377	0.694 0.000 365	0.613 0.000 365	0.601 0.000 365	0.529 0.000 365	0.540 0.000 365	0.611 0.000 365	0.689 0.000 365	0.697 0.000 365
C3Fwls Spache Word List Total sum score	0.902 0.000 425	0.959 0.000 377	1.000 425	0.791 0.000 412	0.743 0.000 412	0.788 0.000 412	0.737 0.000 412	0.706 0.000 412	0.714 0.000 412	0.714 0.000 412	0.682 0.000 412
C3Fsos Spache Oral Reading scaled sum score	0.667 0.000 412	0.694 0.000 365	0.791 0.000 412	1.000 412	0.973 0.000 412	0.677 0.000 412	0.898 0.000 412	0.937 0.000 412	0.955 0.000 412	0.933 0.000 412	0.877 0.000 412
C3Frcs Spache Reading Comprehension sum score	0.644 0.000 412	0.613 0.000 365	0.743 0.000 412	0.973 0.000 412	1.000 412	0.629 0.000 412	0.876 0.000 412	0.926 0.000 412	0.932 0.000 412	0.907 0.000 412	0.844 0.000 412
C3Fso1 Spache Oral Reading scaled score story 1	0.799 0.000 412	0.601 0.000 365	0.788 0.000 412	0.677 0.000 412	0.629 0.000 412	1.000 412	0.696 0.000 412	0.628 0.000 412	0.611 0.000 412	0.525 0.000 412	0.476 0.000 412
C3Fso2 Spache Oral Reading scaled score story 2	0.677 0.000 412	0.529 0.000 365	0.737 0.000 412	0.898 0.000 412	0.876 0.000 412	0.696 0.000 412	1.000 412	0.896 0.000 412	0.839 0.000 412	0.729 0.000 412	0.657 0.000 412
C3Fso3 Spache Oral Reading scaled score story 3	0.629 0.000 412	0.540 0.000 365	0.706 0.000 412	0.937 0.000 412	0.926 0.000 412	0.628 0.000 412	0.896 0.000 412	1.000 412	0.928 0.000 412	0.793 0.000 412	0.702 0.000 412
C3Fso4 Spache Oral Reading scaled score story 4	0.601 0.000 412	0.611 0.000 365	0.714 0.000 412	0.955 0.000 412	0.932 0.000 412	0.611 0.000 412	0.839 0.000 412	0.928 0.000 412	1.000 412	0.866 0.000 412	0.771 0.000 412
C3Fso5 Spache Oral Reading scaled score story 5	0.551 0.000 412	0.689 0.000 365	0.714 0.000 412	0.933 0.000 412	0.907 0.000 412	0.525 0.000 412	0.729 0.000 412	0.793 0.000 412	0.866 0.000 412	1.000 412	0.931 0.000 412
C3Fso6 Spache Oral Reading scaled score story 6	0.497 0.000 412	0.697 0.000 365	0.682 0.000 412	0.877 0.000 412	0.844 0.000 412	0.476 0.000 412	0.657 0.000 412	0.702 0.000 412	0.771 0.000 412	0.931 0.000 412	1.000 412