

Supplemental Material S2. Raw scores on language measures by grade group.

Table S2.1. Descriptive statistics by grade for language measures used for each language construct, presented in raw score mean (and standard deviation).

| Construct Measure | Pre-K | K | Grade 1 | Grade 2 | Grade 3 | Grade 4 | Grade 5 |
|--------------------------------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|
| <i>Receptive Vocabulary</i> | | | | | | | |
| CELF-WCR | 10.66 (5.03) | 14.64 (5.22) | 17.95 (4.17) | 19.10 (2.70) | 8.96 (3.38) | 11.18 (3.69) | 12.81 (3.78) |
| ROWPVT | 49.49 (15.30) | 65.10 (14.54) | 80.02 (12.58) | 91.31 (15.64) | 98.41 (13.17) | 107.34 (13.13) | 113.47 (14.73) |
| TOLD-PV | 14.09 (4.53) | 17.22 (4.33) | 20.70 (4.41) | 23.57 (4.72) | 40.09 (9.24) | 44.84 (9.13) | 48.96 (8.76) |
| <i>Expressive Vocabulary</i> | | | | | | | |
| CELF-EV | 13.96 (8.72) | 21.66 (9.93) | 30.10 (8.41) | 36.13 (8.22) | 40.67 (7.42) | 44.31 (6.33) | 45.92 (5.29) |
| EOWPVT | 46.43 (14.72) | 58.61 (15.20) | 73.86 (13.06) | 84.38 (15.92) | 92.67 (14.59) | 101.28 (14.78) | 108.01 (13.34) |
| CELF-WCE | 6.11 (5.11) | 11.22 (5.79) | 15.67 (4.50) | 17.27 (3.02) | 6.65 (3.03) | 8.33 (3.83) | 9.85 (3.98) |
| <i>Depth of Vocabulary Knowledge</i> | | | | | | | |
| CASL-A | 7.83 (5.71) | 12.57 (5.73) | 18.12 (4.65) | 23.22 (4.65) | 26.18 (4.91) | 28.81 (5.45) | 31.17 (5.50) |
| CELF-WD ^a | — | — | — | — | 12.53 (7.24) | 16.71 (8.32) | 18.87 (8.69) |
| TOLD-RV | 5.27 (5.14) | 9.38 (5.69) | 15.32 (5.97) | 19.52 (5.39) | 12.31 (5.06) | 14.46 (4.75) | 15.91 (4.47) |
| <i>Receptive Syntax/Grammar</i> | | | | | | | |
| CASL-G | 5.56 (5.42) | 13.73 (10.38) | 29.08 (12.89) | 38.46 (13.37) | 43.18 (13.99) | 49.41 (13.60) | 52.21 (4.75) |
| CELF-SS ^b | 14.43 (4.73) | 19.90 (4.41) | 23.33 (2.76) | 24.45 (2.02) | — | — | — |
| TOLD-MCmp ^a | — | — | — | — | 14.76 (9.58) | 18.88 (9.30) | 19.42 (9.99) |
| TOLD-SU ^b | 13.31 (6.38) | 19.37 (5.50) | 23.31 (3.66) | 24.68 (2.99) | — | — | — |
| MSA | 3.79 (5.10) | 8.29 (14.52) | 28.77 (25.04) | 19.68 (9.59) | 23.21 (6.64) | 25.07 (5.55) | 25.53 (5.58) |

Expressive Syntax/Grammar

| | | | | | | | |
|-------------------------|--------------|---------------|--------------|---------------|---------------|---------------|--------------|
| CASL-SC | 10.50 (5.72) | 15.96 (6.48) | 22.40 (6.03) | 27.02 (6.71) | 29.56 (7.15) | 34.59 (7.66) | 37.26 (7.64) |
| CELF-FS | 4.07 (5.97) | 15.93 (11.19) | 27.48 (9.15) | 32.92 (7.47) | 36.49 (5.70) | 43.77 (7.23) | 45.28 (7.32) |
| TOLD-MCmpl ^b | 7.46 (5.78) | 13.69 (7.17) | 20.87 (6.25) | 25.46 (6.07) | — | — | — |
| TOLD-SC ^a | — | — | — | — | 11.13 (6.60) | 13.94 (6.94) | 15.21 (6.89) |
| SMA | 2.48 (2.79) | 5.02 (4.39) | 10.06 (8.45) | 19.86 (12.47) | 25.55 (12.37) | 29.88 (10.30) | 31.78 (9.93) |

Listening Comprehension

| | | | | | | | |
|----------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|
| CELF-CFD | 11.33 (8.05) | 22.74 (11.16) | 32.66 (9.95) | 39.36 (8.34) | 41.70 (7.70) | 46.93 (5.82) | 47.54 (5.02) |
| OWLS-LC | 28.27 (10.35) | 41.07 (9.51) | 50.27 (9.93) | 57.21 (9.33) | 61.53 (9.79) | 67.72 (11.03) | 71.94 (10.31) |
| WJ-OC | 6.00 (3.81) | 9.51 (4.01) | 13.38 (3.30) | 15.79 (3.85) | 18.18 (3.87) | 19.98 (3.75) | 21.66 (3.85) |

Note. CELF = Clinical Evaluation of Language Fundamentals; TOLD = Test of Language Development (Primary or Intermediate version, depending on grade); CASL = Comprehensive Assessment of Spoken Language; CELF-WCR = CELF Word Class Receptive subtest; ROWPVT = Receptive One-Word Picture Vocabulary Test; TOLD-PV = TOLD Picture Vocabulary subtest; CELF-EV = CELF Expressive Vocabulary subtest; EOWPVT = Expressive One-Word Picture Vocabulary Test; CELF-WCE = CELF Word Class Expressive subtest; CASL-A = CASL Antonyms subtest; CELF-WD = CELF Word Definitions subtest; TOLD-RV = TOLD Relational Vocabulary subtest; CASL-G = CASL Grammaticality subtest; CELF-SS = CELF Sentence Structure subtest; TOLD-MComp = TOLD Morphological Comprehension subtest; TOLD-SU = TOLD Syntactic Understanding subtest; MSA = Morphological Syntax Awareness Task; CASL-SC = CASL Syntax Construction subtest; CELF-FS = CELF Formulated Sentences subtest; TOLD-MCmpl = TOLD Morphological Completion subtest; TOLD-SC = TOLD Sentence Combining subtest; SMA = Spoken Morphological Awareness Task; CELF-CFD = CELF Concepts and Following Directions subtest; OWLS-LC = Oral and Written Language Scales Listening Comprehension subtest; WJ-OC = Woodcock–Johnson III Oral Comprehension subtest.

^aTask only administered at older grades. ^bTask only administered at younger grades.