

**Supplemental Material S6.** Extracted data items corresponding to studies included in the systematic literature review and meta-analysis.

Summary table indicating the bilingual language groups, type of literacy precursor, testing medium, languages and measures of literacy precursor assessment, type of literacy outcome, languages and measures of literacy outcome assessment, mean age at assessment, sample size, and country of assessment corresponding to the 41 studies listed in S4.

Study	Bilingual Language Group	Literacy Precursors	Testing Medium	Languages and Measures of Literacy Precursor Assessment	Literacy Outcomes	Languages and Measures of Literacy Outcome Assessment	Mean Age (in years)	<i>n</i>	Country of Assessment
1	Chinese-English	Phonological Awareness	Within; Across	Chinese (phoneme and syllable deletion); English (Comprehensive Test of Phonological Processing; CTOPP; phoneme and syllable deletion)	Word Reading Accuracy	English (Letter-Word Identification subtest, Woodcock Language Proficiency Battery; WLPB)			Canada
		Receptive Vocabulary	Within	English (Peabody Picture Vocabulary Test; PPVT)	Word Reading Accuracy	English (Letter-Word Identification subtest; WLPB)			
		Morphological Awareness	Within	English (Compound word awareness)	Word Reading Accuracy	English (Letter-Word Identification subtest; WLPB)			
1A	Bilingual Chinese-English schooling						6.10	20	
1B	English-only schooling						6.07	33	
2	Chinese-English	Phonological Awareness	Within	English (CTOPP: Silent Phonological Choice Task); phoneme and syllable blending; phonological recording	Word Reading Accuracy	English (Wechsler Individual Achievement Test 2: Australian Adaptation; WIAT)			Singapore

		Orthographic Processing Skills	Within	English (orthographic choice task; homophone verification task; non-lexical choice task)	Word Reading Accuracy	English (WIAT)			
2A	Grade 2-3 English L1						8.02	29	
2B	Grade 2-3 Mandarin L1						8.02	27	
2C	Grade 5-6 English L1						11	25	
2D	Grade 5-6 Mandarin L1						11	25	
3	Chinese-English	Phonological Awareness	Within; Across	Chinese (phoneme and syllable deletion); English (CTOPP; phoneme and syllable deletion)	Word Reading Accuracy	Chinese (Character recognition test); English (Word Identification subtest of the Woodcock Reading Mastery Tests – Revised; WRMT-R)	8.07	57	US
		Receptive Vocabulary	Within; Across	Chinese (Cantonese Receptive Vocabulary Test; CRVT); English (vocabulary subtest, Kaufman Brief Intelligence Test, Second Edition; KBIT-2)	Word Reading Accuracy	Chinese (Character recognition test); English (Word Identification subtest; WRMT-R)			
		Morphological Awareness	Within; Across	Chinese (Morphological Construction Judgement Task); English (Test of Morphological Structure)	Word Reading Accuracy	Chinese (Character recognition test); English (Word Identification subtest; WRMT-R)			
4	Heterogenous (Farsi, Japanese, Spanish,	Phonological Awareness	Within	English (sound mimicry, rhyme detection, syllable and phoneme	Word Reading Accuracy	English (letter-word reading subtest of the Wide Range	5.04	59	Canada

	Tagalog, Chinese, French, Slovakian, Squamish, Arabic, German, Greek, Hindi or Indonesian) - English	Verbal Short-Term Memory	Within	identification, and phoneme deletion) English (Memory for Sentences subtest of the Stanford Binet Test)	Word Reading	Achievement Test–3; WRAT-3) English (letter-word reading subtest; WRAT-3)			
		Syntactic Awareness	Within	English (oral cloze task)	Word Reading Accuracy	English (letter-word reading subtest; WRAT-3)			
		Letter Knowledge	Within	English (letter identification task)	Word Reading Accuracy	English (letter-word reading subtest; WRAT-3)			
		RAN/Serial Recall	Within	English (rapid picture naming)	Word Reading Accuracy	English (letter-word reading subtest; WRAT-3)			
		Spelling	Within	English (word spelling)	Word Reading Accuracy	English (letter-word reading subtest; WRAT-3)			
		Environmental Print Awareness	Within	English (naming of common English logos)	Word Reading Accuracy	English (letter-word reading subtest; WRAT-3)			
5	Malay-English	Morphological Awareness	Within; Across	English	Word Reading Accuracy; Word Reading Fluency	English; Malay	9.04	64	Singapore
6	Spanish-English	Expressive Vocabulary	Within; Across	English (vocabulary growth (word type/minute) during book-sharing sessions); Spanish (vocabulary growth (word type/minute) during book-sharing sessions)	Word Reading Accuracy	English (letter-word identification subtest, Woodcock Johnson III Tests of Achievement; WJ-III)	2-5	133	US
7	Heterogenous (Spanish, Tamil, Arabic, Hungarian, Urdu, or Chinese)-English ; French-English	Phonological Awareness*	Within	English (initial phoneme deletion, final phoneme deletion and phoneme segmentation)	Word Reading Accuracy	English (WLPB-R)	8.05	139	Canada
		Semantic Awareness	Within	English (passage comprehension, synonym generation and antonym generation; Woodcock	Word Reading Accuracy	English (WLPB-R)			

Language Proficiency Battery–Revised									
8	Malay-English; Tamil-English; Mandarin-English	Phonological Awareness	Within	English (CTOPP: onset-rime, syllable and phoneme deletion and blending)	Word Reading Accuracy	English (Wide Range Achievement Test; WRAT-4)			Singapore
		Receptive Vocabulary	Across	Mandarin(8A)/Malay(8B)/Tamil(8C): Bilingual Language Assessment Battery (BLAB)	Word Reading Accuracy	English (WRAT-4)			
8A	Mandarin-English						4.08-5.08	311	
8B	Malay-English						4.08-5.08	147	
8C	Tamil-English						4.08-5.08	163	
9	Russian-Hebrew	Phonological Awareness	Within	Hebrew (initial phoneme detection, final phoneme detection, and syllable/phoneme detection)	Word Reading Errors; Non-Word Reading Accuracy Errors; Text Reading Errors; Text Reading Fluency	Hebrew	6.10-7.03	19	Middle East
		Semantic Awareness	Within	Hebrew (WISC-R: word definition test)	Word Reading Errors; Non-Word Reading Accuracy Errors; Text Reading Errors; Text Reading Fluency	Hebrew			

10	Spanish-English	Receptive Vocabulary and Oral Language Comprehension	Within; Across	Spanish(Test de vocabulario en imágenes Peabody; TVIP and Preschool Language Scale-3; PLS-3); English (PPVT-III and Test of Early Language Development- 3; TELD-3)	Word Reading Accuracy	Spanish (WLPB-R); English (WLPB-R)	3.09	53	US
11	Spanish-English	Receptive Vocabulary	Within; Across	Spanish (TVIP); English (PPVT-III)	Word Reading Accuracy; Text Reading Comprehension	Spanish (letter–word identification and passage comprehension subtests; WLPB-R); English (letter–word identification and passage comprehension subtests; WLPB-R)	4.08	48	US
		Oral Language Comprehension	Within; Across	Spanish (receptive language subtest; PLS-3); English (auditory comprehension subtest; TELD-3)	Word Reading Accuracy; Text Reading Comprehension	Spanish (letter–word identification and passage comprehension subtests; WLPB-R); English (letter–word identification and passage comprehension subtests; WLPB-R)			
12	Spanish-English	Type of Literacy Outcome Measure	Within	Spanish (Woodcock–Johnson and Woodcock–Munoz language and literacy evaluations); English (Woodcock–Johnson and Woodcock–Munoz language and literacy evaluations)	Non-Word Reading Accuracy	Spanish (Woodcock–Johnson and Woodcock–Munoz language and literacy evaluations); English (Woodcock–Johnson and Woodcock–Munoz language and literacy evaluations)			US
12A	Grade 2						Grade 2	704	

12B	Grade 5						Grade 5	704	
13	Maya-Spanish	Letter Knowledge	Within; Across	Spanish (Phonological Awareness Literacy Screening-PreK; PALS); Maya Spanish; Maya	Word Reading Accuracy	Spanish; Maya	4.10	84	Spain
		Name Writing	Across		Word Reading Accuracy	Spanish; Maya			
14	Hindi-English	Phonological Awareness (Neural Study)	Within; Across	Hindi; English	Word Reading Accuracy; Non-Word Reading Accuracy	Hindi; English	9.21	44	India
15	Spanish-French	Phonological Awareness*	Within	Spanish (initial phoneme deletion and acronym task); French (initial phoneme deletion and acronym task)	Non-Word Reading Accuracy; Text Reading Fluency	Spanish; French	10.04	9	Spain
		Visual Attention (VA) Span	Within		Word Reading Accuracy; Word Reading Fluency; Non-Word Reading Accuracy; Non-Word Reading Fluency; Text Reading Errors; Text Reading Fluency	Spanish; French			
16	Alphabetic (Africans, Amharic, Croatian, Czech, Danish, Fanti, German, Greek,	Receptive Vocabulary	Within	English (PPVT-III)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	English (Woodcock Language Battery Proficiency; WLPB-R)			Canada

	Hungarian, Korean, Polish, Serbian, Spanish, Tagalog or Vietnamese) - English; Logographic (Cantonese, Japanese, Mandarin Chinese, Shanghainese) - English	Oral Language Comprehension	Within	English (Listening Comprehension subtest, Woodcock Language Battery Proficiency; WLPB-R)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	English (Woodcock Language Battery Proficiency; WLPB-R)			
16A	Alphabetic L1						9	26	
16B	Logographic L1						9	13	
17	Italian-English	Syntactic Awareness	Within; Across	Italian (oral cloze); English (oral cloze)	Word Reading Accuracy; Non-Word Reading Accuracy	Italian; English (reading subtest; WRAT-R and Word Attack subtest; WRMT-R)	9-13	81	Canada
		Working Memory	Within; Across	Italian (missing word repetition); English (missing word repetition)	Word Reading Accuracy; Non-Word Reading Accuracy	Italian; English (reading subtest; WRAT-R and Word Attack subtest; WRMT-R)			
		Spelling	Within; Across	Italian; English (Spelling sub-test, Wide Range Achievement Test–Revised; WRAT-R)	Word Reading Accuracy; Non-Word Reading Accuracy	Italian; English (reading subtest; WRAT-R and Word Attack subtest; WRMT-R)			
18	Welsh-English	Type of Literacy Outcome Measure	Across	Welsh; English	Word Reading Accuracy; Word Reading Errors; Word Reading Fluency; Text Reading Comprehension	Welsh; English	6-7	20	Wales

<b>19</b>	Heterogenous-Kiswahili	Phonological Awareness* Receptive Vocabulary	Within; Across Within; Across	Kiswahili (initial sound matching) Kiswahili (word picture matching)	Word Reading Fluency Word Reading Fluency	Kiswahili; English Kiswahili; English	6.8-8.6	977	Kenya
<b>20</b>	Spanish-English	Type of Reading Instruction	Within	Spanish; English (Phonics Reading Instruction; Success for All; SFA and Whole Language Reading Instruction)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Spanish; English	7-9	23	US
<b>21</b>	Urdu-Norwegian	Receptive Vocabulary	Within	Norwegian (PPVT-III and Wechsler Intelligence Scale for Children III; WISC III)	Text Reading Comprehension	Norwegian (passage comprehension subtest; WRMT-PC and the Neale Analysis of Reading Ability II ; NARA II)	7.6	90	Norway
		Word Decoding	Within	Norwegian (Test of Word Reading Efficiency; TOWRE)	Text Reading Comprehension	Norwegian (passage comprehension subtest; WRMT-PC and NARA II)			
<b>22</b>	Welsh-English	Phonological Awareness*	Within; Across	Welsh (phoneme segmentation); English (phoneme segmentation)	Word Reading Accuracy	Welsh; English	6.01-7.0	74	Wales
		Receptive Vocabulary	Within; Across	Welsh (British Picture Vocabulary Scale; BPVS)	Word Reading Accuracy	Welsh; English			
		RAN/Serial Recall	Within; Across	Welsh and English (Digit span test, WISC-R)	Word Reading Accuracy	Welsh; English			
		Non-Verbal Intelligence	Within; Across	Welsh and English (Raven's Coloured Progressive Matrices; CPM)	Word Reading Accuracy	Welsh; English			
<b>23</b>	Chinese-English	Phonological Awareness*	Within	English (CTOPP-2: phoneme deletion)	Word Reading Accuracy; Text	English (Reading Comprehension subtest, Peabody Individual			Canada



		Receptive Vocabulary	Within	English (PPVT-III)	Reading Comprehension Word Reading Accuracy; Text Reading Comprehension	Achievement Test— Revised; PIAT-R) English (Reading Comprehension subtest; PIAT-R)			
		Morphological Awareness	Within	English (Derivational Awareness task and Compound Awareness Task	Word Reading Accuracy; Text Reading Comprehension	English (Reading Comprehension subtest; PIAT-R)			
		Word Decoding	Within	English (Letter-Word Identification subtest; WLPB)	Text Reading Comprehension	English (Reading Comprehension subtest; PIAT-R)			
23A	Kindergarten						5.05	46	
23B	Grade 1						6.07	34	
24	Turkish-German	Phonological Awareness*	Within	German (Basiskompetenzen fu"r Lese-Rechtschreibleistungen ; BAKO 1–4: phoneme identification, deletion, word remainder determination and sound categorization)	Text Reading Comprehension	German Text Comprehension subtest, Ein Leseverst"ndnistest fu"r Elementarschu"ler"; ELFE)	7.09	100	Germany
		Expressive Vocabulary	Within	German (Bilingual Verbal Abilities Test; BVAT)	Text Reading Comprehension	German Text Comprehension subtest, Ein Leseverst"ndnistest fu"r Elementarschu"ler"; ELFE)			
		Word Decoding	Within	German (Wu"rzburg Silent Reading Test; WLLP)	Text Reading Comprehension	German Text Comprehension subtest, Ein Leseverst"ndnistest fu"r Elementarschu"ler"; ELFE)			

25	Welsh-English	Receptive Vocabulary	Within	Welsh Prawf Geirfa Cymraeg; PGC); English (BPVS)	Word Reading Accuracy; Text Reading Comprehension	Welsh (Profion Darllen Glannau Menai); English (NARA-II)	7-11	38	Wales
26	Heterogenous-Dutch	Receptive Vocabulary	Within	Dutch (Cito Leeswoordenschat)	Text Reading Comprehension	Dutch (Begrijpend Lezen 678)	11.03	86	Netherlands
		Semantic Awareness	Within	Dutch (auditory semantic decision task)	Text Reading Comprehension	Dutch (Begrijpend Lezen 678)			
		Word Decoding	Within	Dutch (Drie Minuten Toets)	Text Reading Comprehension	Dutch (Begrijpend Lezen 678)			
		RAN/Serial Recall	Within	Dutch (Rapid Automatized Naming Test; RAN and Rapid Alternating Stimulus Test)	Text Reading Comprehension	Dutch (Begrijpend Lezen 678)			
27	Hindi-English	Type of Literacy Outcome Measure	Within	Hindi; English	Word Reading Accuracy	Hindi; English	8.06	30	India
28	Basque-Spanish	Speech Perception	Within	Spanish	Word Reading Accuracy; Word Reading Errors; Non-Word Reading Accuracy; Non-Word Reading Errors; Text Reading Errors; Text Reading Fluency	Spanish (El principito and PROLEC-R)		20	Spain
28A	Grade 2						7.07		
28B	Grade 5						11		

29	Hebrew-English	Sentence Priming	Across	English	Text Reading Errors; Text Reading Fluency; Text Reading Comprehension	Hebrew	Grades 5-6	101	Middle East
30	Turkish-Dutch	Receptive Vocabulary	Within; Across	Turkish (PPVT); Dutch (T-TOS)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Dutch	7.05	71	Netherlands
		Word Decoding	Within	Dutch	Text Reading Comprehension	Dutch			
		Non-Word Decoding	Within	Dutch	Text Reading Comprehension	Dutch			
31	Chinese-English	Working Memory	Within	English (Backward Digit Recall)	Word Reading Accuracy	English (Word Reading Subtest; WRAT)	4.01-5.05	736	Singapore
		Non-Verbal Intelligence	Within	English (Raven's CPM)	Word Reading Accuracy	English (Word Reading Subtest; WRAT)			
32	Chinese-English	Phonological Awareness	Within; Across	Chinese (onset-rime matching task and tone matching task); English (onset-rime matching task and final phoneme matching task)	Word Reading Accuracy	Chinese (Graded Character Recognition Task); English (Word Identification Subtest; WRAT-R)	8.05	40	US
		Non-Verbal Intelligence	Within	English (Test of Nonverbal Intelligence, Third Edition; TONI-3)	Word Reading Accuracy	English (Word Identification Subtest; WRAT-R)			

33	Chinese-English	Phonological Awareness	Within; Across	Chinese (onset-rime and syllable deletion); English (CTOPP: phoneme deletion)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)	11	47	Canada
		RAN/Serial Recall	Within; Across	Chinese (Forward Digit Span subtest, Wechsler Intelligence Scale for Children - Third Edition; WISC-III) and English (Forward Digit Span subtest; WISC-III)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)			
		Receptive Vocabulary	Within; Across	Chinese (PPVT-III); English (PPVT-III)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)			
		Expressive Vocabulary	Within; Across	Chinese (Expressive One-Word Picture Vocabulary Test - Third edition; EOWPVT-III); English ( EOWPVT-III)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)			

Non-Verbal Intelligence	Within; Across	Chinese and English (Matrix Analogies Test)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)
Word Decoding	Within; Across	Chinese (Chinese Character Recognition test); English (word identification subtest; WRMT-R)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)
Non-Word Decoding	Within; Across	Chinese (Chinese Pseudo-Character Test); English (word attack subtest; WRMT-R)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)
Verbal Working Memory/Serial Recall	Within; Across	Chinese (Backward Digit Span subtest; WISC-III and Verbal Working Memory Task); English (Backward Digit Span subtest; WISC-III and Verbal Working Memory Task)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)

		Non-Verbal Working Memory	Within; Across	Chinese and English (Swanson's Visual Matrix subtest, Test of Working Memory)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)		
		Syntactic Awareness	Within; Across	Chinese (Chinese Syntactic Awareness Task); English (Syntactic Judgment task)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)		
		Morphological Awareness	Within; Across	Chinese (Chinese Derivational and Compound Morpheme Awareness Test); English (Test of Morphological Structure)	Word Reading Accuracy; Non-Word Reading Accuracy; Text Reading Comprehension	Chinese (Character Recognition Test, Pseudo-Character Test and Gray Oral Reading Test Fourth Edition; GORT-4); English (Word Identification Subtest, WRMT-R, Word Attack Subtest; WRMT-R and NARA)		
34	Spanish-Basque; French-Basque	VA Span	Across	Spanish, French, and Basque (Visual 1 Back Task)	Word Reading Accuracy; Non-Word Reading Accuracy; Word Reading Fluency; Non-Word Reading Fluency	Basque simple (no consonant clusters) and complex (one or multiple consonant clusters or digraphs) word and non-words	Grade 3	Spain
34A	Spanish-Basque						8.88	25
34B	French-Basque						8.96	25

35	Spanish-English; Chinese-English	Phonological Awareness	Within; Across	Chinese (Newman et al.'s 2011 measure; phoneme and syllable deletion); English (Comprehensive Test of Phonological Processing; CTOPP; phoneme and syllable deletion); Spanish (Test of Phonological Processing in Spanish; phoneme and syllable deletion)	Word Reading Accuracy	English (letter-word identification subtest, Woodcock Johnson IV Tests of Achievement; WJ-IV)	Kinderg arten- Grade 4	US
		Morphological Awareness	Within; Across	Chinese (adapted Song et al.'s 2015 measure); English (Early Lexical Morphology Measure); Spanish (modelled after English Early Lexical Morphology Measure)	Word Reading Accuracy	English (letter-word identification subtest, Woodcock Johnson IV Tests of Achievement; WJ-IV)		
		Receptive Vocabulary	Within; Across	Chinese (PPVT-R); English (PPVT-5); Spanish (PPVT)	Word Reading Accuracy	English (letter-word identification subtest, Woodcock Johnson IV Tests of Achievement; WJ-IV)		
35A	Spanish-English Chinese-English						96	
35B							86	
36	Heterogeneous- German	Phonological Awareness	Within	German (Onset-Rime test from Build the Right Word)	Text Reading Comprehension	German	Kinder- garten Grade 4	Germany
		Receptive Vocabulary	Within	German (modified PPVT)	Text Reading Comprehension	German		

		Receptive Grammar (Morphological awareness and syntactic awareness)	Within	German (adapted Test of Reception of Grammar; morphological awareness and syntactic awareness)	Text Reading Comprehension	German				
		RAN/Serial Recall	Within	German (digit recall subtest of the Kaufman Assessment Battery for Children)	Text Reading Comprehension	German				
		Working Memory	Within	German (digit span backward subtest from the Hamburg Wechsler Intelligence Test for Children-III)	Text Reading Comprehension	German				
36A	German (dominant)-Heterogenous								130	
36B	Heterogeneous (dominant)-German								90	
37	Heterogeneous (Mandarin, Korean, Russian, Tamil, Farsi, Hebrew, Vietnamese, Polish, Gujarati, Spanish, Portuguese, Serbian, and Tagalog)-English	Nonverbal Verbal Intelligence	Within	English (Matrices subtest of the Kaufmann’s Brief Intelligence Test, 2nd edition; K-BIT 2; visuo-spatial reasoning)	Word Reading Accuracy; Text Reading Comprehension	English (Word Identification subtest of the Woodcock Reading Mastery Tests – Revised - WRMT-R; Gates-MacGinitie Reading Test – Form C)	Grade 3 7.8-9.3	50	Canada	



		Receptive Vocabulary	Within	English (PPVT-III)	Word Reading Accuracy; Text Reading Comprehension	English (Word Identification subtest of the Woodcock Reading Mastery Tests – Revised - WRMT-R; Gates-MacGinitie Reading Test – Form C)			
		Receptive Grammar (Morphological awareness and syntactic awareness)	Within	English (Morphological and Syntactic awareness; Grammatical Completion subtest of the Test of Language Development: Primary; TOLD; morphological awareness and syntactic awareness)	Word Reading Accuracy; Text Reading Comprehension	English (Word Identification subtest of the Woodcock Reading Mastery Tests – Revised - WRMT-R; Gates-MacGinitie Reading Test – Form C)			
		Word Decoding	Within	English (Word Identification subtest of the Woodcock Reading Mastery Tests)	Text Reading Comprehension	English (Gates-MacGinitie Reading Test – Form C)			
38	Chinese-English	Phonological Awareness (syllable deletion and onset deletion)	Within; Across (Chinese-English)	Chinese Phonological Awareness	Word Reading Accuracy	Chinese Word Decoding	Grades 1-3	364	China
		Orthographic Processing	Within	Chinese Orthographic Awareness; English (Word Decision Task)	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy	7.38		
		Morphological Awareness	Within	Chinese Morphological Awareness; English Morphological Awareness	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy			
		Expressive Vocabulary	Within	Chinese Expressive Vocabulary; English Expressive Vocabulary	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy			

		Receptive Vocabulary	Within	Chinese Receptive Vocabulary; English Receptive Vocabulary	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy			
		Spelling	Within	Chinese (Word Dictation Task); English (Word Dictation Task)	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy			
		Nonverbal Verbal Intelligence	Within	Chinese and English (Raven's CPM)	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy			
		RAN/Serial Recall	Within	Chinese RAN; English RAN	Word Reading Accuracy	Chinese Word Reading Accuracy; English Word Reading Accuracy			
39	Urdu-English	Expressive Vocabulary	Within	English (Wechsler Abbreviated Scale of Intelligence –II; WASI-II)	Word Reading Accuracy; Text Reading Comprehension	English (Single Word Reading Test; York Assessment of Reading for Comprehension)	Grades 4-6	104	UK
		Receptive Vocabulary	Within	English (British Picture Vocabulary Scale-3; BPVS-3)	Word Reading Accuracy; Text Reading Comprehension	English (Single Word Reading Test; York Assessment of Reading for Comprehension)	9.06		
		Nonverbal Verbal Intelligence	Within	English (Matrix Reasoning subtest of the WASI-II)	Word Reading Accuracy; Text Reading Comprehension	English (Single Word Reading Test; York Assessment of Reading for Comprehension)			
		Working Memory	Within	English (Backward Digit Span subtest of the Automated Working Memory Assessment)	Word Reading Accuracy; Text Reading Comprehension	English (Single Word Reading Test; York Assessment of Reading for Comprehension)			
		Executive Function	Within	English (Simon Task; Letter Fluency Task)	Word Reading Accuracy; Text Reading Comprehension	English (Single Word Reading Test; York Assessment of Reading for Comprehension)			

		Novel Word Learning	Within	English Novel Word Learning	Word Reading Accuracy; Text Reading Comprehension	English (Single Word Reading Test; York Assessment of Reading for Comprehension)			
		Word Decoding	Within	English (Single Word Reading Test)	Word Reading Accuracy; Text Reading Comprehension	English (York Assessment of Reading for Comprehension)			
40	Spanish-English	Phonological Awareness)	Within; Across (Spanish-English)	Spanish (Test of Phonological Processing in Spanish; TOPPS; phoneme and syllable deletion); English (Comprehensive Test of Phonological Processing; CTOPP-2; phoneme and syllable deletion)	Word Reading Accuracy; Text Reading Comprehension	Spanish (Letter Word Identification and Passage Comprehension subtests of the Batería III Woodcock-Muñoz Test of Achievement); English (Letter Word Identification and Passage Comprehension subtests of the Woodcock-Johnson IV Test of Achievement)	8.07	90	US
		Receptive Vocabulary	Within; Across (Spanish-English)	Spanish (Test de Vocabulario en Imágenes Peabody; TVIP); English (Peabody Picture Vocabulary Test; PPVT-5)	Word Reading Accuracy; Text Reading Comprehension	Spanish (Letter Word Identification and Passage Comprehension subtests of the Batería III Woodcock-Muñoz Test of Achievement); English (Letter Word Identification and Passage Comprehension subtests of the Woodcock-Johnson IV Test of Achievement)			

		Morphological Awareness	Within; Across (Spanish-English)	Spanish (Early Lexical Morphology Measure – Spanish; ELMM-S); English (Early Lexical Morphology Measure; ELMM)	Word Reading Accuracy; Text Reading Comprehension	Spanish (Letter Word Identification and Passage Comprehension subtests of the Batería III Woodcock-Muñoz Test of Achievement); English (Letter Word Identification and Passage Comprehension subtests of the Woodcock-Johnson IV Test of Achievement)			
		Word Decoding	Within; Across (Spanish-English)	Spanish (Letter Word Identification subtest of the Batería III Woodcock-Muñoz Test of Achievement); English (Letter Word Identification subtest of the Woodcock-Johnson IV Test of Achievement)	Text Reading Comprehension	Spanish (Passage Comprehension subtest of the Batería III Woodcock-Muñoz Test of Achievement); English (Passage Comprehension subtest of the Woodcock-Johnson IV Test of Achievement)			
41	Heterogenous (English, German, French, Kurdish, Dutch, Turkish, Arabic, or Polish) - Norwegian	Receptive Vocabulary	Within	Norwegian (Vocabulary subtest of the Wechsler Intelligence Scale for Children; WISC-4)	Word Reading Accuracy; Text Reading Comprehension	Norwegian (TOSWRF; NARA)	Grade 5	91	Norway
		Oral Language Comprehension	Within	Norwegian (NARA)	Word Reading Accuracy; Text Reading Comprehension	Norwegian (TOSWRF; NARA)			
		Morphological Awareness	Within	Norwegian (Derivational Morphemes and Non-	Text Word Reading Accuracy; Text	Norwegian (TOSWRF; NARA)			

			Words; Knowledge of Conjunctions)	Reading Comprehension	
Word Decoding	Within		Norwegian (Word Chain Test; Adaptation of Test of Silent Word Reading Fluency; TOSWRF)	Text Reading Comprehension	Norwegian (NARA)

*Note.* Studies 1, 2, 8, 12, 16, 23, 28, 34, 35, and 36 assess multiple simultaneous bilingual language groups; \* = Studies (7, 15, 19, 22, 23, 24) that only assessed phonemic awareness; Within-Language Testing Medium refers to literacy precursors and outcome measures assessed in the same language; Across-Language Testing Medium refers to literacy precursors and outcome measures assessed in different languages.