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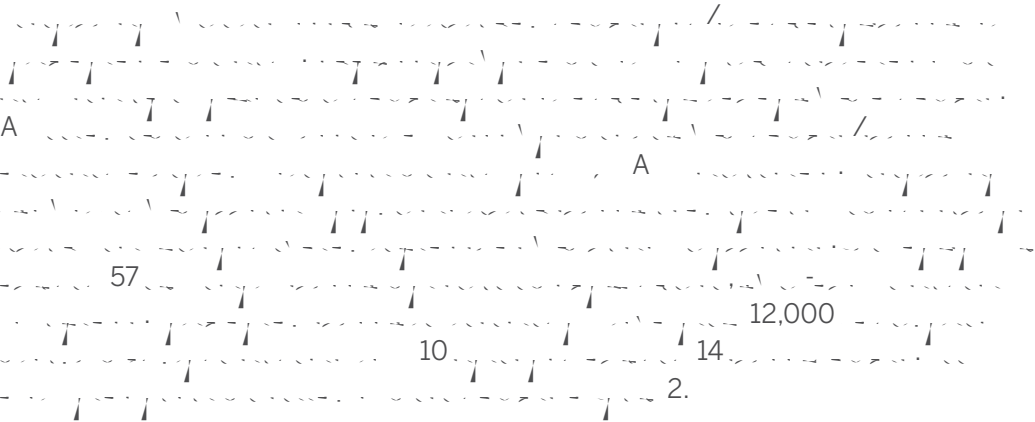
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F S Fl / (FSF)	
L Na g Fl / (LNF)	
P S g a Fl / (PSF)	4
N W Fl / (NWF)	4
DIBELS O a l R a g Fl / (DORF)	
Dz	
DIBELS C S	
D g (DEC)	
V a l a / (VOC)	
C S ll (CLASS I CS)	9
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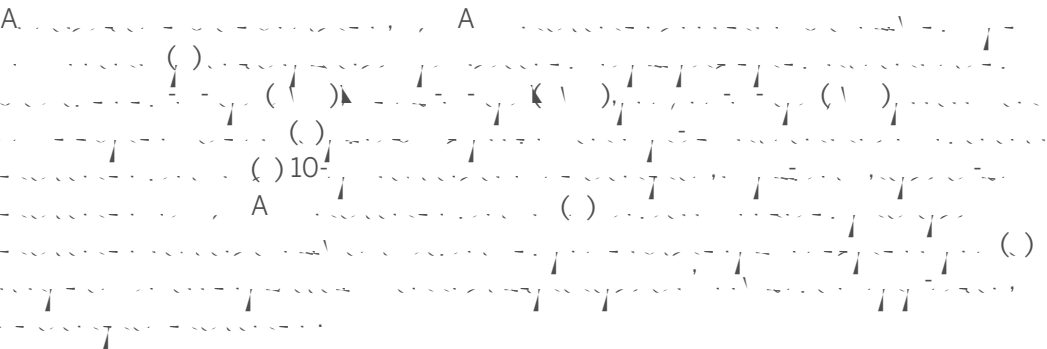
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Participants

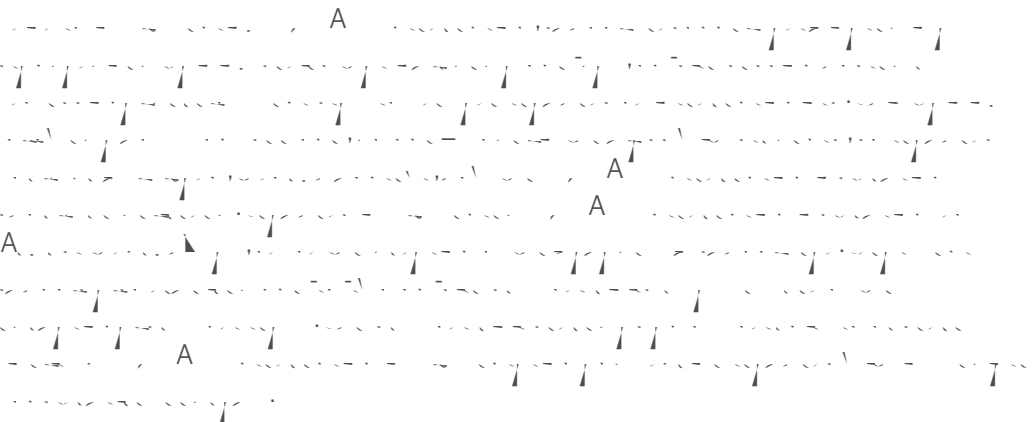


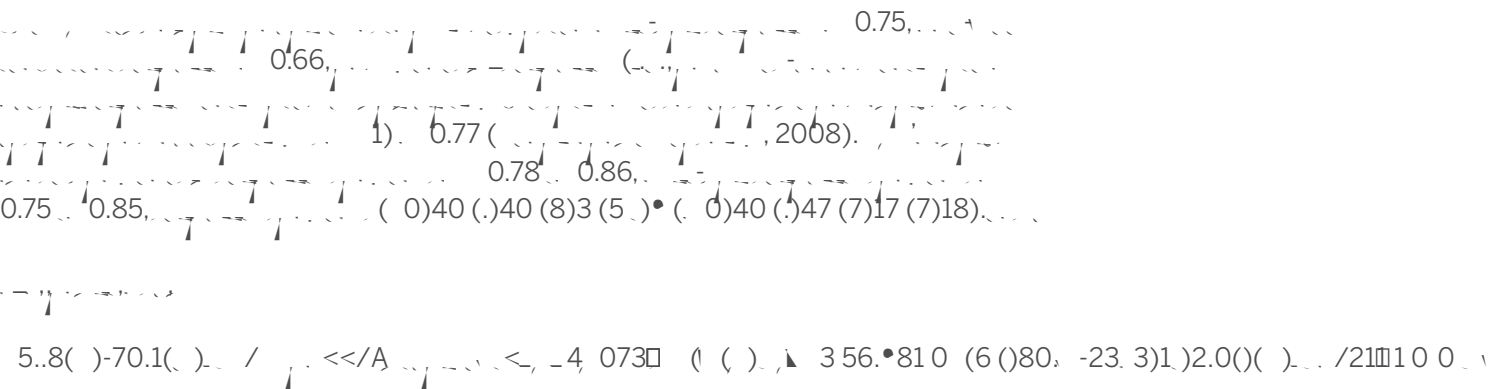
Treatment schools

Intervention procedures

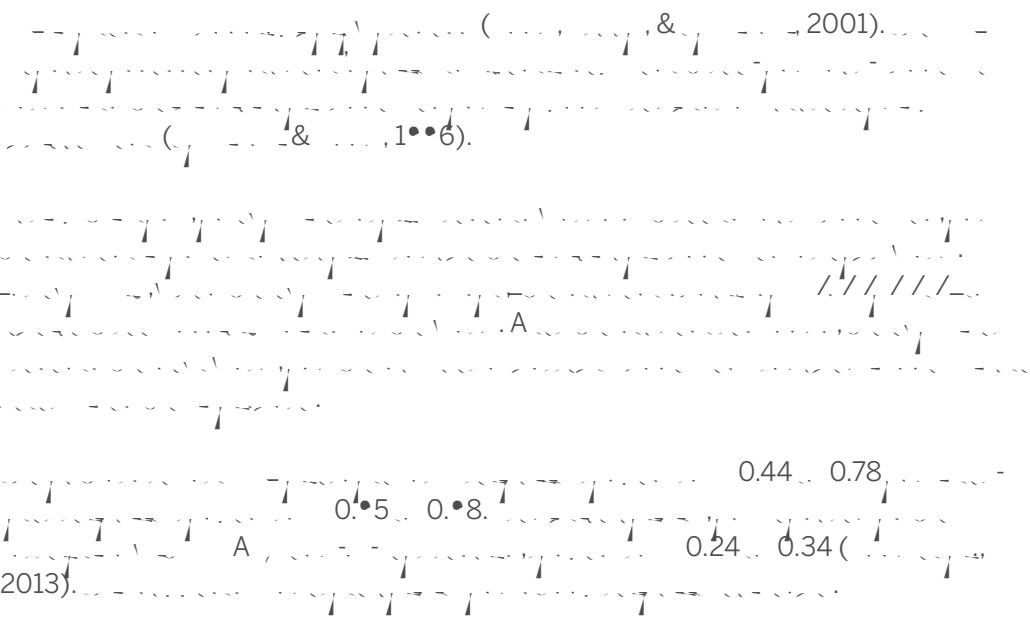


Training of school personnel

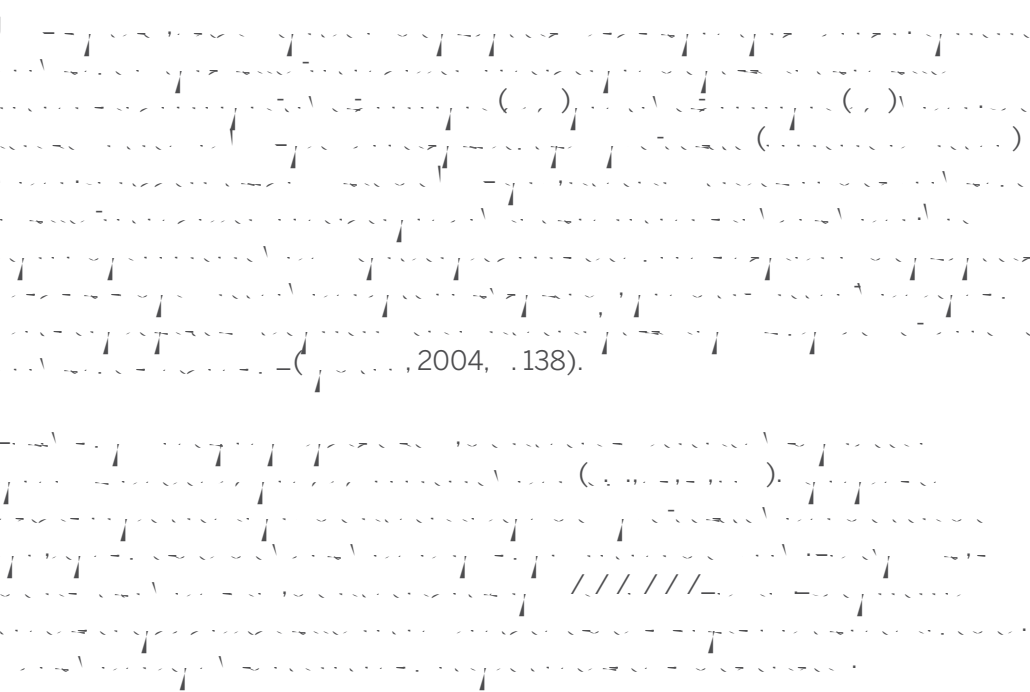




Phoneme Segmentation Fluency (PSF)



Nonsense Word Fluency (NWF)



MEASURES

10.1 10 20.1
0.1 -36 1 25 15.1 2 0 -1.4 2
301 0.1 21 10 301 0.1 20 15.1 2 10.1 10

Daze

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-6

Decoding (DEC)

$\text{DEC} = \frac{1}{n} \sum_{i=1}^n \left(\frac{A_i}{A_i + B_i} \right)$

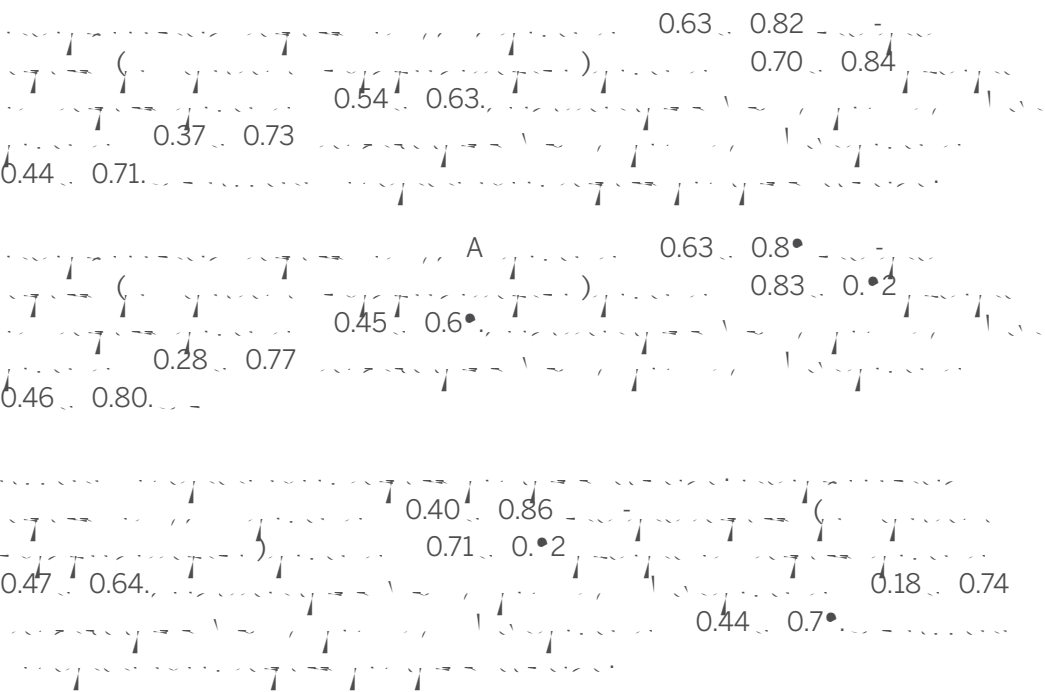
(Cohen & Cohen, 2004).

- $\text{DEC} = \frac{1}{n} \sum_{i=1}^n \left(\frac{A_i}{A_i + B_i} \right)$
- $\text{DEC} = \frac{1}{n} \sum_{i=1}^n \left(\frac{A_i}{A_i + B_i} \right)$
- $A_i = \text{A}$ (A)
- $\text{DEC} = \frac{1}{n} \sum_{i=1}^n \left(\frac{A_i}{A_i + B_i} \right)$

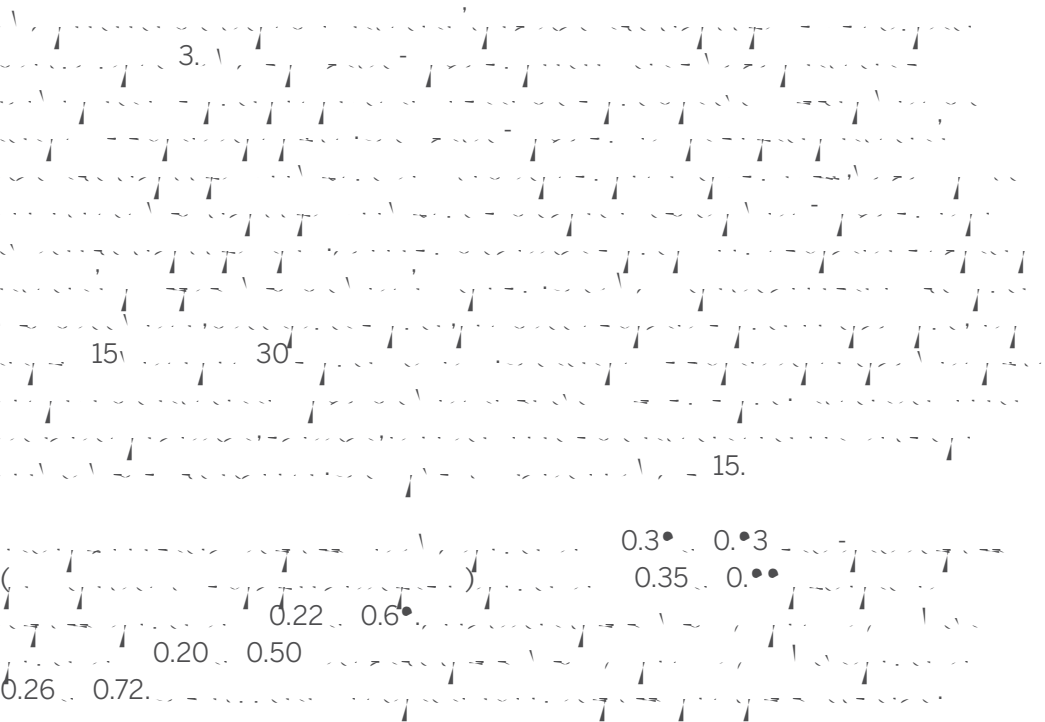
$\text{DEC} = \frac{1}{n} \sum_{i=1}^n \left(\frac{A_i}{A_i + B_i} \right)$

$\text{DEC} = \frac{1}{n} \sum_{i=1}^n \left(\frac{A_i}{A_i + B_i} \right)$

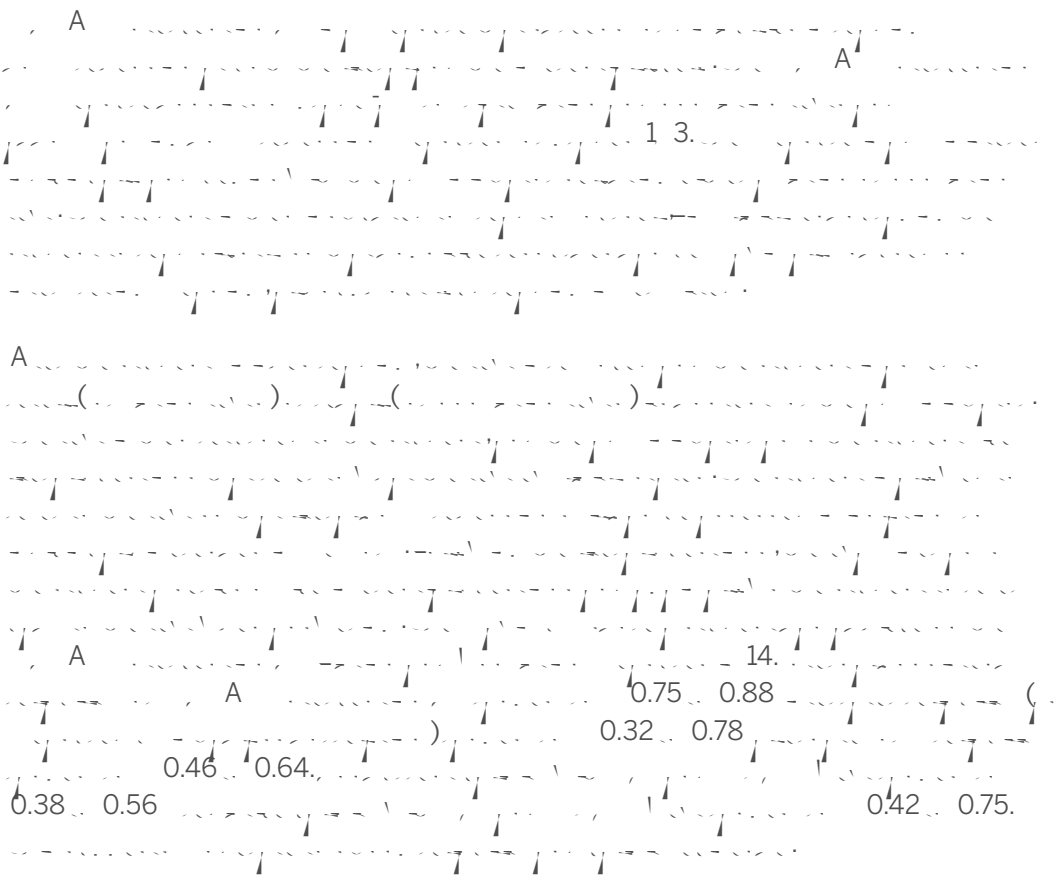
0.62 0.86
 0.68 0.3
 0.53 0.60
 0.31 0.71
 0.78 0.48



Vocabulary (VOC)



Comprehension skills (mCLASS Intervention CS)



DISCUSSION

... .. A
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... .. A 2 3.

DISCUSSION

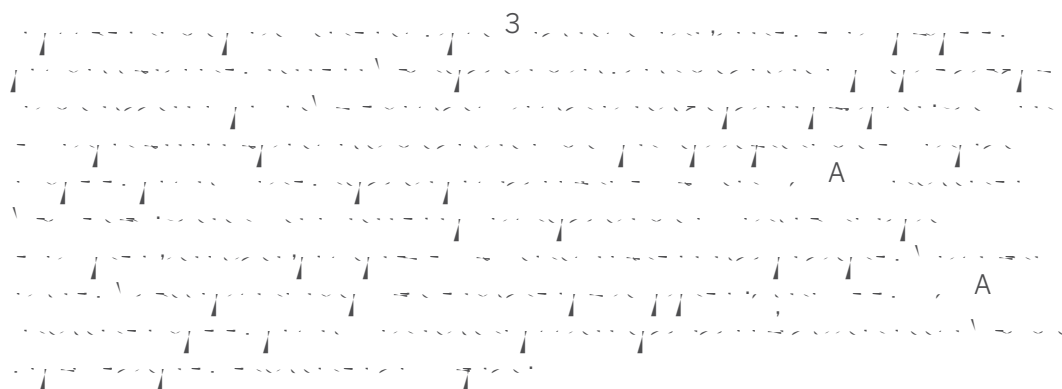
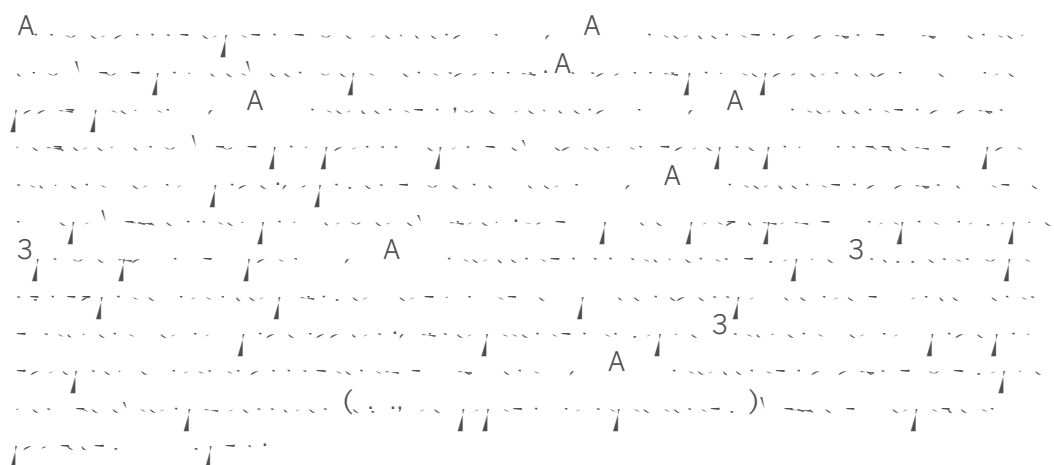




Figure 1. The mCLASS Intervention Skills-Based Model.

Table 1 | Alignment of Instructional Strands to Hexagons in the mCLASS Intervention Skills- Based Model.

Skill	Strand Abbrev.	Strand	Strand Goal
Identify A	A	A	Identify A
Identify B		B	Identify B
Identify C & D	C	C	Identify C & D
Identify E	E	E	Identify E
Identify F		F	Identify F
Identify G		G	Identify G
Identify H		H	Identify H
Identify I		I	Identify I
Identify J		J	Identify J
Identify K		K	Identify K
Identify L		L	Identify L
Identify M		M	Identify M
Identify N		N	Identify N
Identify O		O	Identify O
Identify P		P	Identify P
Identify Q		Q	Identify Q
Identify R		R	Identify R
Identify S		S	Identify S
Identify T		T	Identify T
Identify U		U	Identify U
Identify V		V	Identify V
Identify W		W	Identify W
Identify X		X	Identify X
Identify Y		Y	Identify Y
Identify Z		Z	Identify Z

Table 5 | Percentage of students below national norm percentiles by experimental group and grade

Grade (DIBELS CS at Percentile)	Treatment	Control
XIII. 25th Percentile		
0 (10)	49.70%	46.64%
1 (4)	62.96%	55.68%
2 (125)	84.88%	83.30%
3 (11)	78.48%	78.93%
XIV. 30th Percentile		
0 (14)	62.46%	60.70%
1 (100)	71.01%	67.03%
2 (138)	97.29%	97.59%
3 (209)	99.14%	99.61%

Table 6 | DIBELS Next pretest composite scores by grade and condition.

Measures (Name)	Treatment			Control		
	n	Mean	Standard Deviation	n	Mean	Standard Deviation
VII. Grade Level						
Pretest Composite	666	10.34	8.08	654	10.98	8.36
Pretest Composite 1	621	79.11	26.4	643	83.2	25.16
Pretest Composite 2	516	74.51	45.12	497	72.94	45.92
Pretest Composite 3	474	127.16	67.89	560	124.66	67.77

Table 7 | Student growth percentiles by grade, TOY, and condition.

Grade	N of Students (mCLASS Intervention Schools)	N of Students (Control Schools)	Median SGP (mCLASS Intervention Schools)	Median SGP (Control Schools)	Significance Test (Wilcox Z)
A...	2003	201•	53	48	3.83 (< 0.05)
.	588	567	5•	51	2.57 (< 0.05)
1	556	557	50	43	2.3• (< 0.05)
2	458	446	53.5	45.5	2.5• (< 0.05)
3	401	44•	50	51	0.11 (. . .)

Table 8 | Post-test results for DIBELS Next and SEL: full sample.

Measure Name	Variables	Burst	Control	Significance Test
Vowel 1	Letter-sound association	33.3	31.41	t(1110) = 3.38, p < 0.05, Cohen's d = 0.30
	Alphabet knowledge	34.8	30.55	
	Phonological awareness	24.1	22.74	
	N	556	557	
Vowel 2	Letter-sound association	54.1	49.63	t(847) = 4.15, p < 0.05, Cohen's d = 0.27
	Alphabet knowledge	54.48	50.07	
	Phonological awareness	24.3	23.4	
	N	458	446	
Vowel 3	Letter-sound association	70.63	71.1	t(847) = 1.1*, p > 0.05, Cohen's d = 0.08
	Alphabet knowledge	70.14	71.63	
	Phonological awareness	28.56	28.47	
	N	401	444	
Average	Letter-sound association	12.43	12.08	t(847) = 0.41, p > 0.05, Cohen's d = 0.03
	Alphabet knowledge	12.33	12.17	
	Phonological awareness	6.8	7.2	
	N	401	444	

Table 9 | Post-test results for DIBELS N

Table 9 | Post-test results for DIBELS Next and SEL: Subgroup DIBELS CS BOY below 20th percentile.

Measure Name	Variables	Burst	Control	Significance Test
Vowel 2		46.24	41.2	t(636) = 2.5, p < 0.05, d = 0.21
	A 	45.56	41.5	
		22.51	20.63	
				
		324	315	
Vowel 3		58.02	60.05	t(522) = 1.61, p = 0.10
	A 	57.8	60.27	
		27.44	26.54	
				
		244	281	
A, 3		5.85	5.67	t(522) = 0.33, p = 0.03
	A 	5.85	5.71	
		6.26	6.36	
				
		244	281	

Table 10 | Post-test Results for DIBELS Next and SEL: White students.

Measure Name	Variables	Burst	Control	Significance Test
DIBELS Next Letter-Name Fluency	Letter-Name Fluency	121.25	120.06	(642) 0.75, t = 0.07
	Letter-Name Fluency	121.78	119.37	
	Letter-Name Fluency	44.53	41.83	
	Letter-Name Fluency	366	279	
SEL Social Skills 1	Social Skills 1			
	Social Skills 1			
	Social Skills 1			

Table 10 | Post-test Results for DIBELS Next and SEL: White students.

Measure Name	Variables	Burst	Control	Significance Test
A 3		7•0.3•	7•6.67	(432) . 0.76,
				004□ , () ,▲ , •.641 .4□ , 8□ ()40 8 31.

Table 10 | Post-test Results for DIBELS Next and SEL: White students.

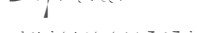
Measure Name	Variables	Burst	Control	Significance Test
V - 1		34.34	32.02	(5**) 3.38, < 0.05, 0.30
	A 	35.2	30.22	
		23.2	22.57	
				
		321	281	
V - 2		56.47	53.12	(463) 2.34, < 0.05, 0.15
	A 	56.52	53.05	
		25.31	24.72	
				
		271	15	
V - 3		70.66	76.3	(457) 2.34, < 0.05, 0.14
	A 	71.42	75.2	
		28.53	28	
				
		272	188	
A - 3		12.85	13.78	(457) 1.0*, 0.0*
	A 	12.2	13.57	
		7.17	6.2	
				
		272	188	

Table 11 | Post-test Results for DIBELS Next and SEL: Black students.

Measure Name	Variables	Burst	Control	Significance Test
Letter-Identifi-	Letter-Identifi-	46.54	38.8•	(166) 3.15, < 0.05, 0.2•
	A Letter-Identifi-	46.44	38.•6	
	Letter-Identifi-	15.31	16.•4	
	Letter-Identifi-			
	Letter-Identifi-	72	•7	
Letter-Sound	Letter-Sound	44.25	31.51	(166) 4.32, < 0.05, 0.41
	A Letter-Sound	44.13	31.5•	
	Letter-Sound	23.21	16.86	
	Letter-Sound			
	Letter-Sound	72	•7	
Letter-Fluency	Letter-Fluency	32.•2	28.71	(166) 1.66, 0.16
	A Letter-Fluency	32.87	28.75	
	Letter-Fluency	15.•8	16.2	
	Letter-Fluency			
	Letter-Fluency	72	•7	
Letter-Fluency 1	Letter-Fluency 1	42.5•	41.77	(204) 0.24, 0.02
				41.8... 0, 683... ()1

Table 12 | Post-test Results for DIBELS Next and SEL: Hispanic students.

Measure Name	Variables	Burst	Control	Significance Test
Letter Sound Fluency		137.1	117.8	
	A	137.28	117.68	(151) 2.83,
		46.18	41.86	< 0.05,
				0.27
Letter Fluency		61	•3	
		137.32	•3.14	
	A	141.17	•0.62	(164) 4.75,
		73.1	73.36	< 0.05,
Word Fluency				0.44
		66	101	
		1•0.05	150.78	
	A	171.08	160.4	(107) 0.•3,
Word Recognition		86	8•71	
				0.06
		37	73	
		263.3•	244.54	
Reading Comprehension		254.65	24•.13	(87) 0.46,
	A	•6.•8	•7.73	
				0.03
		31	5•	
A		612.67	5•4.2	
	A	613.88	5•3.36	(144) 1.25,
		106.86	•8.31	
				0.12
A		60	87	
		707.87	661.63	
	A	713.84	657.76	(157) 3.76,
		10•.23	••.53	< 0.05,
A				0.34
		63	•7	
		76. 8(0)40 (.34)•	-34.617 3.683 (A)1• ()10 ()• ()•1 ()•	-0.02• 0.02• 11.5
	A			
A				

Table 13 | Post-test Results for DIBELS Next and SEL: English as a second language students.

Measure Name	Variables	Burst	Control	Significance Test
Letter Sound Fluency	Letter Sound Fluency	116.67	118.02	(327) 0.01, 0.00
	A Letter Sound Fluency	117.1	117.05	
	Letter Sound Fluency	45.3	46.5	
	Letter Sound Fluency	22	101	
Letter Fluency	Letter Fluency	105.38	83	(325) 2.54, <0.05, 0.21
	A Letter Fluency	105.88	88.72	
	Letter Fluency	75.58	71.65	
	Letter Fluency	176	152	
Letter Fluency	Letter Fluency	155.51	132.08	(22) 0.58, 0.03
	A Letter Fluency	150.36	146.53	
	Letter Fluency	86.2	83.04	
	Letter Fluency	142	0	
Letter Fluency	Letter Fluency	245.07	236.22	(238) 1.46, 0.08
	A Letter Fluency	237.04	248.1	
	Letter Fluency	11.1	104.76	
	Letter Fluency	144	7	
Letter Fluency	Letter Fluency	620.01	620.82	(304) 0.22, 0.02
	A Letter Fluency	621.07	618.38	
	Letter Fluency	101.76	105.33	
	Letter Fluency	214	3	
Letter Fluency	Letter Fluency	666.65	654.86	(30) 1.30, 0.11
	A Letter Fluency	667.72	653.68	
	Letter Fluency	110.85	105.3	
	Letter Fluency	164	148	
Letter Fluency	Letter Fluency	731.41	708.7	(211) 0.44, 0.03
	A Letter Fluency	724.24	71.67	
	Letter Fluency	88.7	5.26	
	Letter Fluency	12	85	
Letter Fluency	Letter Fluency	784.6	777.16	(223) 0.37, 0.03
	A Letter Fluency	77.7	783.53	
	Letter Fluency	81.12	80.57	
	Letter Fluency	131	5	

Table 14 | Post-test Results for DIBELS Next and SEL: Students receiving subsidized lunch.

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