

2

SPECIAL EDUCATION

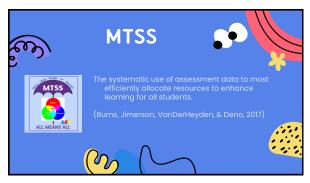
- President's Commission on Excellence in Special Education
- Reduce paperwork and increase flexibility
- Identify and intervene early
 - Service first and assessment later
- "Those that get counted, count."
- Use special education staff more effectively

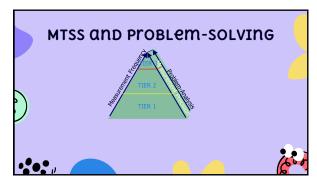
Individualized instruction , at no cost to the parents or guardians, to meet the unique needs of a child with a disability.

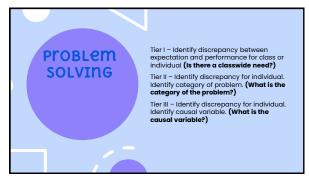
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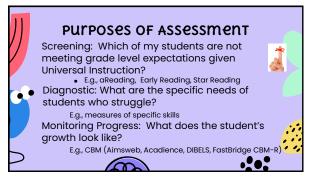












Screener	MAP < 25 th %ile	MAP ≥ 25 th %ile	Total	
Aimsweb CBM-R				0 22 2 16 1
CBM-R < Benchmark Goal	276	145	421	Sensitivity = a / (a + c) .86 for CBM-R
	а	b		.31 for F&P
CBM-R ≥ Benchmark Goal	46	501	547	.51 101 1 01
	С	d		Specificity = d / (b + d)
Total	322	646	968	.78 for CBM-R
Fountas & Pinnell BAS				.66 for F&P
BAS < Benchmark Goal	90	189	279	
	а	b		Correct Classification
BAS ≥ Benchmark Goal	200	367	567	= (a + d) / N
	С	d		.80 for CBM-R
Total	290	556	846	.54 for F&P
				<u></u>



	Spring	Benchmark	90	
Stude	ent Grade	ORF	Errors	
A	2	64	5	
В	2	22	5	
С	2	77	0	Does This Look
D	2	68	4	Familiar?
Е	2	21	1	rammarr
F	2	18	2	
G	2	60	0	
H	2	70	2	
- 1	2	84	0	
J	2	77	0	
K	2	26	4	
L	2	89	1	
M	2	54	0	
N	2	46	8	
0	2	70	3	
P	2	75	0	
Q	2	32	6	
R	2	35	2	
S	2	51	1	
Т	2	71	1	

		Student	MAP	CBM-ORF
		601	225	209
	Does This Look	602	210	113
	Does This Look	603	210	135
	Familiar?	604	196	138
	i aiiiiiai :	605	219	145
		606	211	75
7		607	220	128
'	MAP Criterion = 212	608	206	132
	THE CHARLES LIE	609	204	126
		610	221	214
	CBM-ORF Criterion = 141	611	183	88
	CDIN OIL CIRCIION 111	612	209	137
		613	211	158
		615	210	122
		616	222	133
		617	224	158
		618	211	85
		619	208	140
		620	210	137
		621	214	125
		622	204	101
)		623	215	122
		624	227	172
	(404)	Median	211	133

WHAT IS THE CLASS MEDIAN?

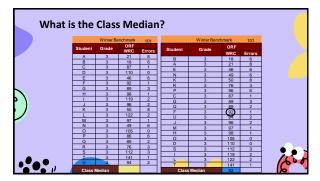
- Median: the middle value in a list of numbers when the values are arranged from lowest to highest.
- Finding the class median:
 Order student scores from the lowest to highest value.
 The score in the middle of the list is the median.

 - o If there is an even number of scores, take the average of the middle two scores.

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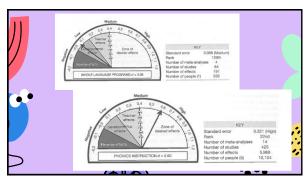
		1		WRC
			Student 1	48
			Student 2	122
			Student 3	126
	Fall	70	Student 4	82
	Faii	70	Student 5	102
			Student 6	77
			Student 7	51
	Winter	91	Student 8	84
	vviiitei	91	Student 9	80
			Student 10	102
			Student 11	83
	Spring	109	Student 12	38
		Opining 100	Student 13	104
			Student 14	152
			Student 15	143
			Student 16	115
			Student 17	142
			Student 18	114
			Student 19	
				13 75
			Student 20	
			Student 21	141
			Student 22	87
			Student 23	49
			Median	87

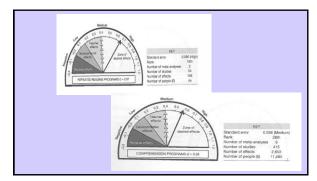
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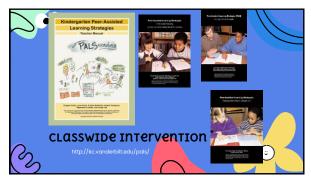




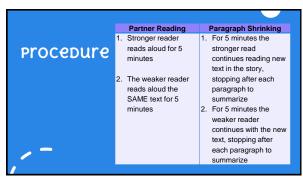


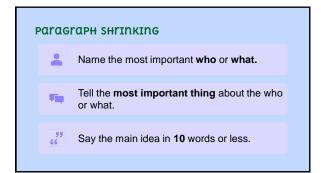
Prill & practice d=0.99 Simulation/game d=0.32 d=0.31 Meta-cognition d=0.67 Class size d=0.21 Direct Instruction d=0.59 Problem-based d=0.15 Mastery Learning d=0.57 Inductive teach d=0.06 Total d=0.17



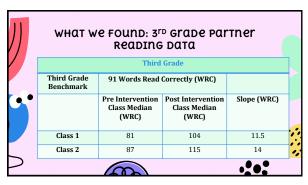








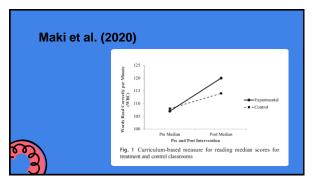




WHAT WE FOUND: 3^{TD} Grade Partner Reading Data

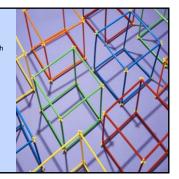
	Students Below Benchmark Pre Intervention	Students Below Benchmark Post Intervention	Total Students in Class
Third Grade Class 1	10	5	20
Third Grade Class 2	13	5	23

	WRC	WRC after PALS
Student 1	48	92
Student 2	122	142
Student 3	126	147
Student 4	82	113
Student 5	102	117
Student 6	77	97
Student 7	51	70
Student 8	84	95
Student 9	80	82
Student 10	102	127
Student 11	83	106
Student 12	38	47
Student 13	104	115
Student 14	152	161
Student 15	143	158
Student 16	115	125
Student 17	142	160
Student 18	114	127
Student 19	13	40
Student 20	75	92
Student 21	141	136
Student 22	87	105
Student 23	49	47
Median	87	113

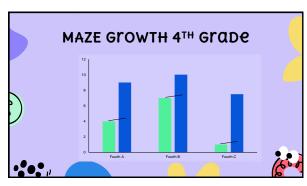


Science Project

- Approximately 140 4th and 5th graders
- Science content
- Readworks.org
- Science MAZE
- 2 weeks

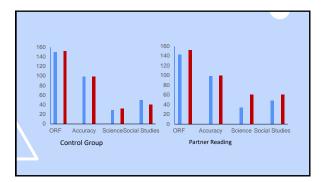


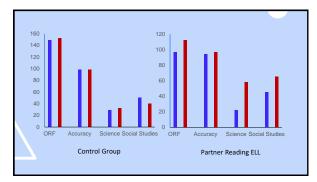
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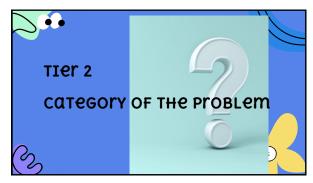
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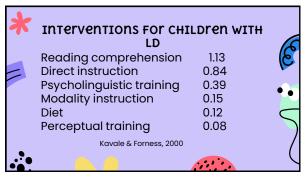


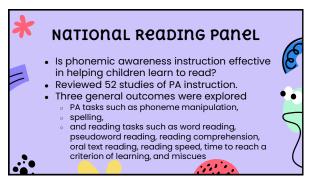


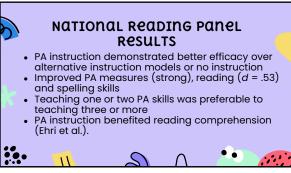






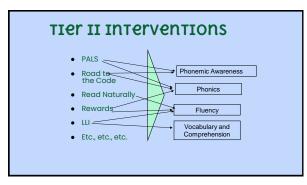


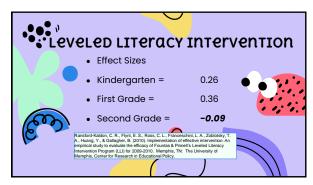


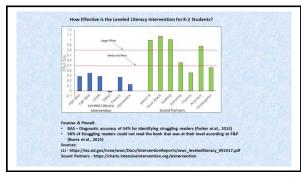


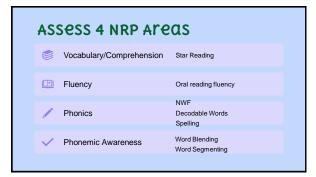
$\operatorname{\text{\it Means}}$ and ranges of effect sizes by reading outcome $\operatorname{\text{\it Measure}}$ Ν Mean ES SD Minimum Maximum Pseudowords 0.84 0.80 -0.19 3.60 -0.05 Words in Isolation 48 0.92 0.89 4.33 Contextual Reading 0.37 0.38 -0.37 24 1.18

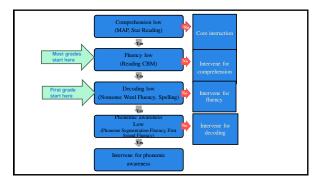
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	Grade	Phonemic Awareness	Phonics	Fluency	Comprehension	
	Kindergarten	Road to the Code	Sound Partners	NA	NA	
	First Grade	Road to the Code	Sound Partners	NA	NA	
	Second Grade	Intervention for All:	Sound Partners	Read Naturally	Learning Strategies	
		Phonological Awareness			Curriculum: Inferencing	
					(LSC:I)	
	Third Grade	NA	Phonics for	Read Naturally	LSC:I	
۲ ۱			Reading			
Y	Fourth Grade	NA	REWARDS	Read Naturally	LSC:I	
	Fifth through	NA	REWARDS	Read Naturally	LSC:I	
	Eighth Grades					
	••,		11		6	60

	Grade	Phonemic Awareness	Phonics	Fluency	Comprehension	
	Kindergarten					
	First Grade					
1 11	Second Grade					
	Third Grade					
	Fourth Grade					
••••	Fifth Through Eighth Grades					600
)					6

Category of Problem MN HS

- 9-12 with approximately 1600 students
- 69.2% pass reading
 9th-10th grade
- 28% low on MAP (~225)
- 45% Low on TOSCRF (~100) 64% low on phonics (~65)

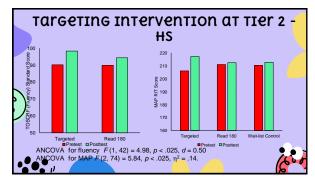
 - 36% acceptable phonics (~36)

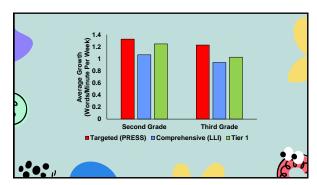
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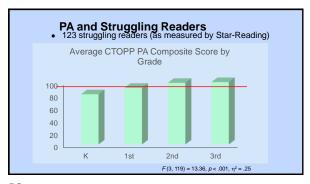
Groups

- Randomly assigned to two groups
 - 。Read 180
 - Targeted (phonics REWARDS, fluency Read Naturally, comprehension Read 180
- Wait list control group
- 20 minutes each day for 13 weeks in addition to reading and study skills

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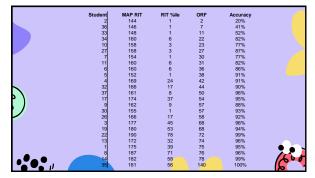




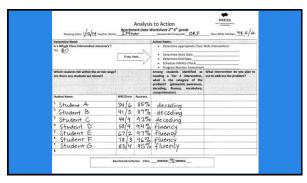
Grade	N	Correlation	Number of Students Low PA
Kindergarten	28	.35*	20 (70%)
First Grade	26	.19	10 (38%)
Second Grade	32	.27	7 (21%)
Third Grade	37	.02	5 (14%)

Regression of Oral Reading Fluency on Phonemic Awareness (as Measured by Comprehensive Test of Phonological Processing Second Edition) and Reading Decoding (as Measured by Nonsense Word Fluency) with Decoding in Model 2 with Students in Second and Third Grades (n = 69). Model 1 Model 2 Model 3 SE Beta В SE Beta -0.23 -0.42 0.47 -0.89 -0.31 0.54 Phoneme Blending 0.04 0.05 .11 0.85 0.01 0.03 .02 0.29 0.01 0.04 .03 0.36 0.06 -.08 -0.67 0.04 0.04 .08 0.93 0.04 0.04 -0.04 0.99 Reading Decoding 0.77 0.08 .77 9.27 0.79 0.10 .78 8.33* -0.02 0.04 -.04 -0.47 Phoneme Elision R² = .02, Δ = .02, F = 0.51 R² = .58, Δ = .56, F = 85.85* R² = .58, Δ < .01, F = 0.22

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36001	nd Grade					
Practice Data		5	pring Benchmar		90	
		Student	Grade	WRC	RF Errors	Accuracy
A145	the class median?	Α	2	31	6	83.8%
& AAUGU IS	me dass medians	- 1	2	47	5	90.4%
Does this	dass need a class-	c	2	47	4	92.2%
	ervention?	0	2	48	4	92.3%
wide inte	Freemony	E	2	51	2	96.2%
♦ Why?		E	2	54	3	94.7%
		G	2	55	4	93.2%
◆ Use the I	ntervention Flowchart	H	2	58	7	89.2%
to decide	what is appropriate	1	2	61	7	89.7%
for this c	loss.	<u> </u>	2	61	1	98.4%
		K	2	65	0	100%
Assign st	udent partnerships, if	L	2		1	98.6%
appropr	iate.	M	2	78	2	97.5%
		N	2	82		93.2%
	t Partnerships	0	2	84	0	100%
Coach	Reader	P	2	86	0	100%
		Q	2	95	0	100%
		R	2	98	2	98.0%
		5	2	108	1	99.1%
		T	2	121	2	98.4%
		U	2	141	3	97,9%
		Cless	Median			

Meta-Analysis

- •24 studies of K-8 small-group reading interventions
 · 27 effects

- Median g = 0.54
 Targeted (comprehension, fluency, vocabulary, decoding, phonemic awareness) • Hall & Burns (2018)
- 14 effects, g = 0.65
 Comprehensive
 13 effects g = 0.33

