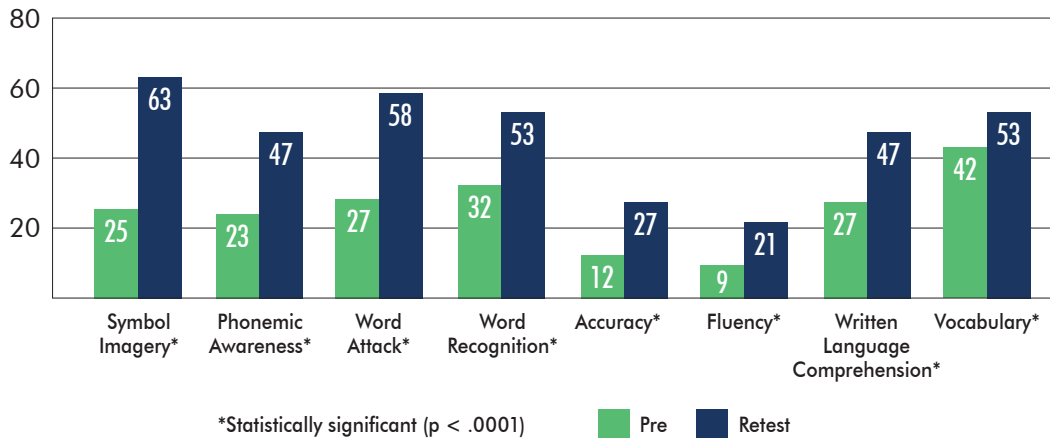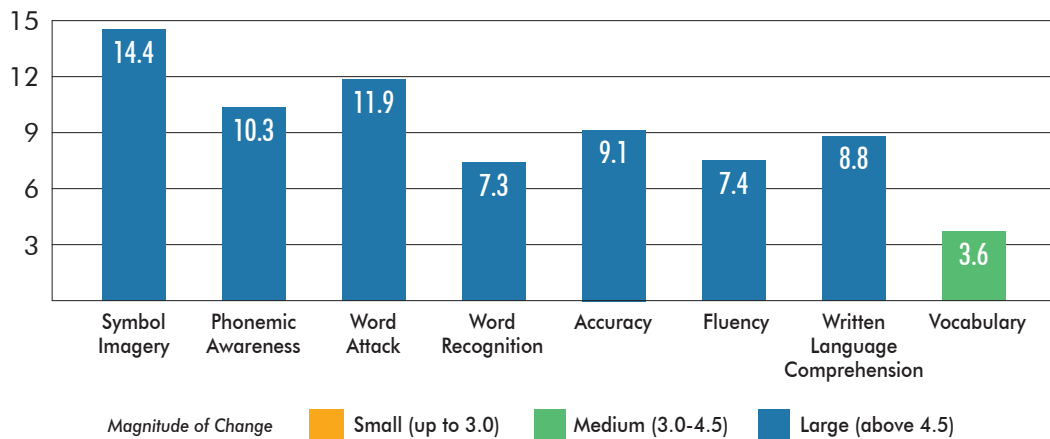# Decoding & Comprehension (Combined)

Results of Students Who Received Both Decoding and Comprehension Instruction

Pre- and Retest Percentiles

	Pre	Retest
Symbol Imagery*	25	63
Phonemic Awareness*	23	47
Word Attack*	27	58
Word Recognition*	32	53
Accuracy*	12	27
Fluency*	9	21
Written Language Comprehension*	27	47
Vocabulary*	42	53

*Statistically significant (p < .0001) ■ Pre ■ Retest

Average Standard Score Changes

Symbol Imagery	Phonemic Awareness	Word Attack	Word Recognition	Accuracy	Fluency	Written Language Comprehension	Vocabulary
14.4	10.3	11.9	7.3	9.1	7.4	8.8	3.6

Magnitude of Change ■ Small (up to 3.0) ■ Medium (3.0-4.5) ■ Large (above 4.5)

Summary

Lindamood-Bell Instruction Implemented:
Seeing Stars and Visualizing and Verbalizing

Years:
Jan. 2008 – Dec. 2023

Number of Students:
7,704

Average Age:
11.4

Average Instruction Hours:
147.5

Results: On average, students who received Seeing Stars combined with Visualizing and Verbalizing instruction achieved significant improvements in decoding and comprehension. Our combined focus student population represents about 30% of our total Learning Center population. They made large (statistically significant) standard score changes on seven of eight measures. Although the large average standard score gain on the Word Recognition measure is notable, it is equally if not more important to note the large average standard score gains in Paragraph Reading Accuracy and Written Language Comprehension.