



# HANDS-ON TOOLS

Proven to Positively Impact  
**Early Literacy**

534 1<sup>ST</sup> AND 2<sup>ND</sup> GRADERS



14 ELEMENTARY SCHOOLS



27 TEACHERS IN EXPERIMENTAL GROUP

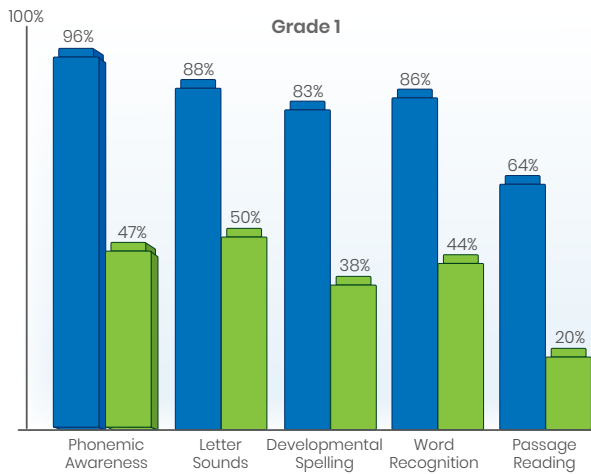


6 MONTHS

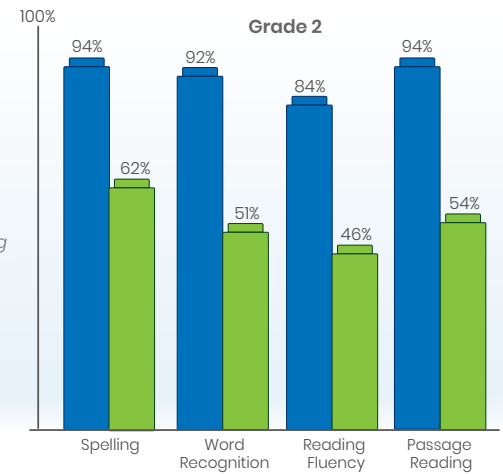


## Hands-On Tools Enable Students to Meet or Exceed Learning Targets

CROSSING TARGET THRESHOLD

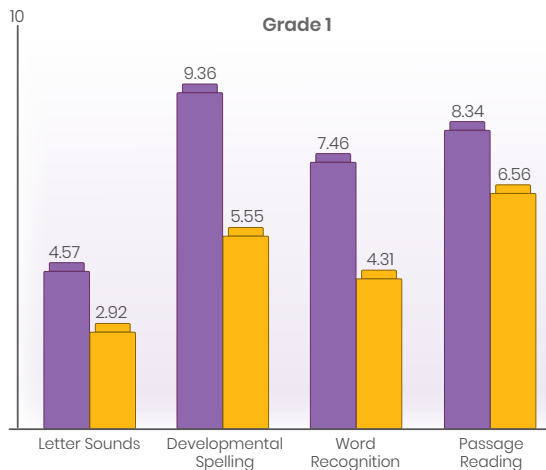


Comparison of experimental and control group students crossing from below-target performance in the fall to at- or above-target performance in the spring

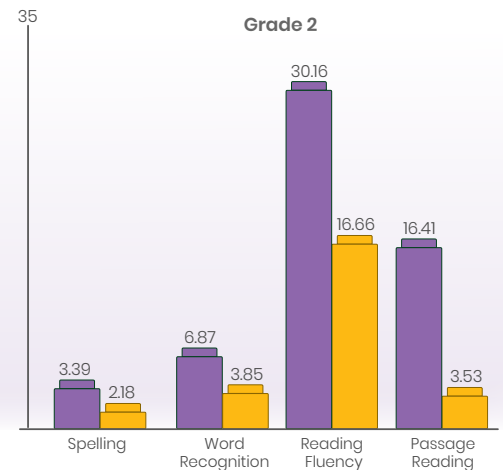


## Students Engaged in Hands-On Literacy Show Greater Gains in Test Scores

AVERAGE GAINS



Comparison of mean gains of experimental and control group students from pretest to posttest

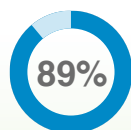


## The Implementation and Use of Hands-On Tools in Literacy Positively Impacts Student Achievement

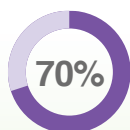
DEGREE OF IMPLEMENTATION FACTOR



Maximal Implementers



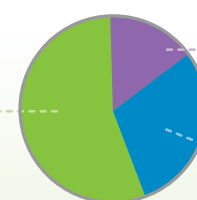
Moderate Implementers



Minimal Implementers

Percentage of Students Meeting or Exceeding Target on Posttest by Degree of Teacher Implementation

15 teachers



4 teachers  
8 teachers

Maximal Implementers  
Moderate Implementers  
Minimal Implementers



Teachers by Degree of Implementation

Degree of implementation classification was determined by observers in the classroom who interviewed teachers using a scoring rubric to evaluate the everyday use of hands-on materials and strategies.