

Motor Symbol Sequencing Whole Cohort Study February to November 2016

Students: Grade One students in 4 classes in a Primary School in Australia

Assessment Tool: Wold Sentence Copy Test – a standardized visual motor test measuring how quickly and accurately students can copy printed material; used as a predictor of academic performance

Cognitive Exercise: Arrowsmith Program Motor Symbol Sequencing (MSS) Exercise designed to strengthen the cognitive capacity underlying learning motor plans in reading and writing

Structure: 1 class completed 30 minutes per day of the MSS cognitive exercise; 3 classes completed traditional handwriting programs

Results

Classes	Arrowsmith Class		Gifted Class		Academic Class 1		Academic Class 2	
	Pre Test	Post Test	Pre Test	Post Test	Pre Test	Post Test	Pre Test	Post Test
Students at or above grade level								
%	10%	95%	30%	70%	35%	45%	5%	45%
% Change		85%		40%		10%		40%

At Risk Readers

- 5 students in the study were identified as at-risk for reading problems in kindergarten; Reading Recovery program recommended for Grade 1
- All 5 students were placed in **Arrowsmith** class in Grade 1
- After 10 weeks in the program, all 5 students were reading at proficient level and no longer recommended as needing Reading Recovery program

Results based on the Wold Sentence Copy Test Scores