

ABC Support Brief Research Report #7:

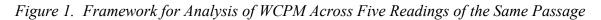
WCPM on the Same Passages Read during Pre-Training, Intervention, and Follow-Up Phases

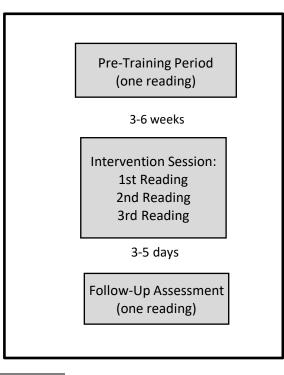
Overview

By design, during the 2019-2020 pilot study, each student was administered a subset of 5-9 training passages during the *pre-training period*. Pre-training included the baseline, teacher training, and orientation phases. The number of training passages administered during pre-training varied depending on the length of each student's baseline phase.

An *intervention session* focusing on each training passage occurred 3-6 weeks following pretraining. The time between pre-training and intervention varied depending on the length of each student's baseline. During each 20-minute intervention session, the student read the same training passage three times.

Finally, during **follow-up assessment** (3-5 days following the intervention session), the training passage was re-administered. This design feature (depicted in Figure 1) allowed for an analysis of students' growth (WCPM) from pre-training, across three repeated readings during an intervention session, to follow-up.¹





¹ A planned assessment of maintenance at 7 weeks post-intervention did not occur due to school closings because of the Covid-19 pandemic.

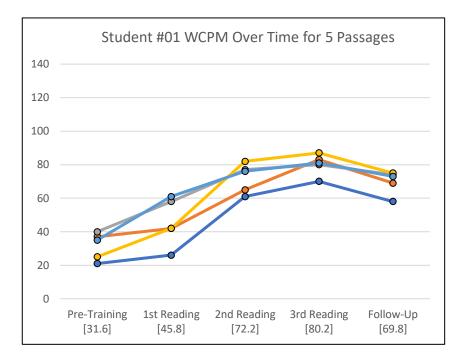
Individual Student Graphs

The graphs on the following pages display the WCPM for the subset of training passages we administered to each student² across pre-training (1x), intervention (3x), and follow-up (1x). An explanation of the measurement time points depicted in the graphs is provided below:

- **Pre-training:** WCPM for unaided reading of a training passage during pre-training (baseline, teacher training, and orientation phases).
- 1st reading: WCPM for the first reading of a training passage during an intervention session (3-6 weeks following pre-training). During each session, the first passage reading occurred following (a) a review of READ expectations; (b) goal setting; and (c) prompting of expectations. Normative growth in WCPM for second grade is 1.5 words per week³; therefore, across 3-6 weeks the expected gain in WCPM is 4.5 9.0.
- 2nd reading: WCPM for the second reading of a training passage during each intervention session. The second reading occurred following (a) feedback, recording, and praise for 1st reading; (b) prompting; and (c) teacher demonstration of passage reading with interspersed student reading.
- **3rd reading:** WCPM for the third reading of a training passage during each intervention session. The third reading occurred following (a) reading error correction; (b) feedback, recording, and praise for 2nd reading; and (c) prompting.
- **Follow-up:** unaided reading of a training passage at follow-up (3-5 days [~1 week] following the intervention session).

² Student 05 refused to participate in pre-training and follow-up assessment of WCPM.

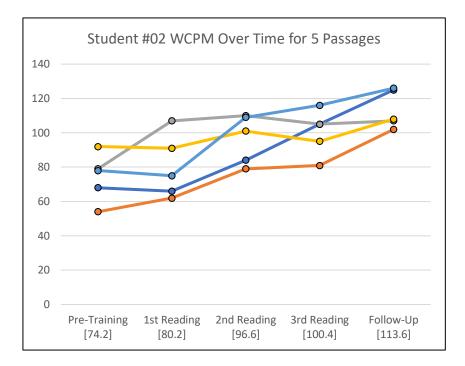
³ Tindal, G., & Nese, J. F. T. (2013). *Oral reading fluency growth: A sample of methodology and findings*. Retrieved from http://ncaase.com/publications/in-briefs.



Pre-training: average WCPM = 31.6 (3 weeks prior to intervention)

1 st reading:	average WCPM = 45.8 gain from pretraining = 14.2 <i>(expected gain = 4.5 WCPM)</i>
2 nd reading:	average WCPM = 72.2 gain from 1 st reading = 26.4
3 rd reading:	average WCPM = 80.2 gain from 2^{nd} reading = 8.0
Follow-up:	average WCPM = 69.8 change from 3^{rd} reading = -10.4

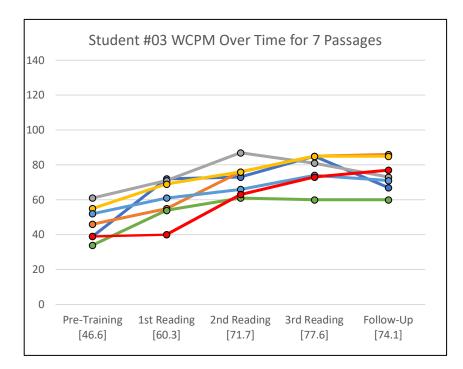
Pre-training to follow-up: +38.2 WCPM



Pre-training: average WCPM = 74.2 (3 weeks prior to intervention)

1 st reading:	average WCPM = 80.2 gain from pretraining = 6.0 <i>(expected gain = 4.5 WCPM)</i>
2 nd reading:	average WCPM = 96.6 gain from 1^{st} reading = 16.4
3 rd reading:	average WCPM = 100.4 gain from 2^{nd} reading = 3.8
Follow-up:	average WCPM = 113.6 change from 3^{rd} reading = $+13.2$

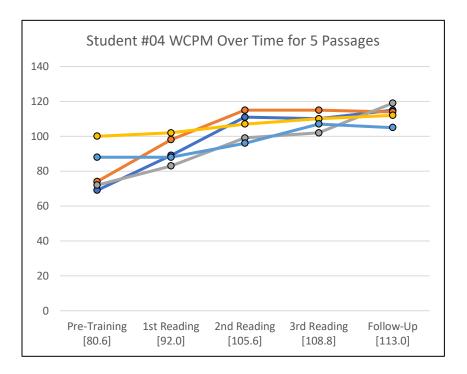
Pre-training to follow-up: +39.4 WCPM



Pre-training: average WCPM = 46.6 (4 weeks prior to intervention)

1 st reading:	average WCPM = 60.3 gain from pretraining = 13.7 <i>(expected gain = 6.0 WCPM)</i>
2 nd reading:	average WCPM = 71.7 gain from 1^{st} reading = 11.4
3 rd reading:	average WCPM = 77.6 gain from 2^{nd} reading = 5.9
Follow-up:	average WCPM = 74.1 change from 3^{rd} reading = -3.5

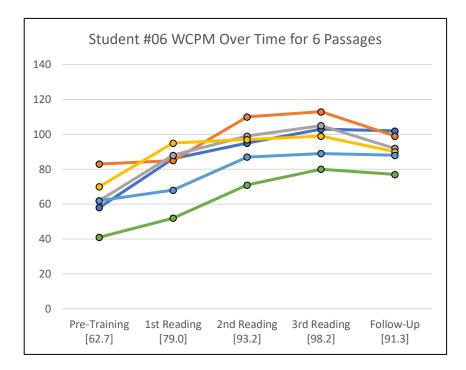
Pre-training to follow-up: +27.5 WCPM



Pre-training: average WCPM = 80.6 (4 weeks prior to intervention)

1 st reading:	average WCPM = 92.0 gain from pretraining = 11.4 (expected gain = 6.0 WCPM)
2 nd reading:	average WCPM = 105.6 gain from 1^{st} reading = 13.6
3 rd reading:	average WCPM = 108.8 gain from 2^{nd} reading = 3.2
Follow up:	average WCPM = 113.0 change from 3^{rd} reading = $+4.2$

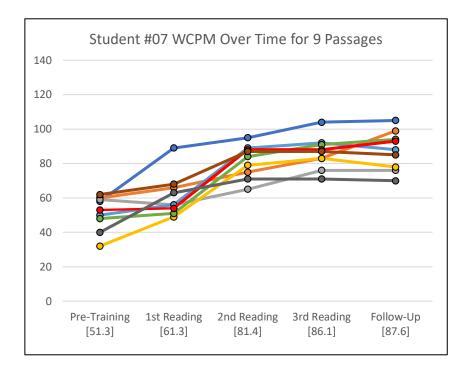
Pre-training to follow-up: +32.4



Pre-training: average WCPM = 62.7 (5 weeks prior to intervention)

1 st reading:	average WCPM = 79.0 gain from pretraining = 16.3 (expected gain = 7.5 WCPM)
2 nd reading:	average WCPM = 93.2 gain from 1 st reading = 14.2
3 rd reading:	average WCPM = 98.2 gain from 2^{nd} reading = 5.0
Follow-up:	average WCPM = 91.3 change from 3^{rd} reading = -6.9

Pre-training to follow-up: +28.6



Pre-training:	average WCPM $= 51.3$	(6 weeks prior to intervention)

1 st reading:	average WCPM = 61.3 gain from pretraining = 10.0 <i>(expected gain = 9.0 WCPM)</i>
2 nd reading:	average WCPM = 81.4 gain from 1^{st} reading = 20.1
3 rd reading:	average WCPM = 86.1 gain from 2^{nd} reading = 4.7
Follow-up:	average WCPM = 87.6 change from 3^{rd} reading = $+1.5$

Pre-training to follow-up: +36.3

Summary

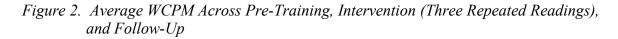
The average WCPM for training passages (a) at pre-training, (b) for three repeated readings during intervention, and (c) at follow-up are presented in Figure 2 below for each student participant. Four conclusions may be drawn from these findings:

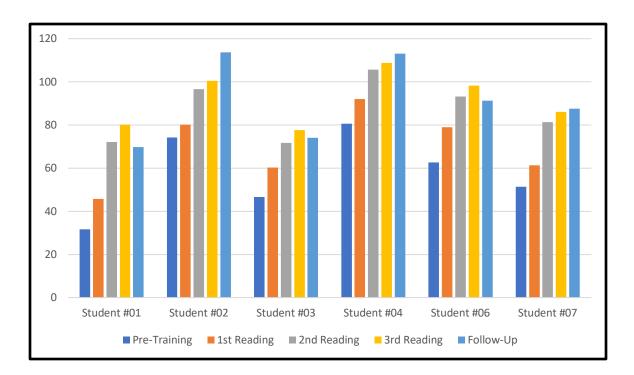
1. During each *ABC Support* session, three combined intervention elements implemented *prior* to the first passage reading – specifically, a review of READ expectations, goal setting, and prompting of expectations – increased WCPM on the training passage *more than* the expected gain (i.e., > 1.5 words per week).

2. During each *ABC Support* session, the greatest gain in WCPM occurred between the first and second passage reading, following the implementation of three intervention elements – specifically, feedback/recording/praise for 1st reading, prompting, and teacher demonstration of passage reading with interspersed student reading.

3. Three students demonstrated an increase in WCPM from the intervention session to follow-up assessment; three students demonstrated a drop in WCPM at follow-up.

4. Across all students, the average gain in WCPM from pre-training to follow-up was 33.7. Depending on the length of each student's baseline condition, the number of weeks between pre-training and follow-up assessment was 4-7. The expected growth in WCPM across 4-7 weeks is 6.0 to 10.5 WCPM.





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Gettinger, M., Kratochwill, T. R., Eubanks, A., Foy, A., & Lindner, A. (2020). *ABC Support Brief Research Report #7: WCPM on the same passages read during pre-training, intervention, and follow-up phases.* Wisconsin Center for Education Research, University of Wisconsin-Madison.