

# Administration Training & Fidelity of DOMA

Project STAIR

Technical Report 15

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## **Administration Training & Fidelity of DOMA**

### **Purpose**

The purpose of this technical report is to provide information regarding the administration training and fidelity of administering the *Diagnostic Online Math Assessment (DOMA) Pre-Algebra*.

### **Method**

The *Diagnostic Online Math Assessment (DOMA) Pre-Algebra* is an assessment of students' Algebra I readiness (Let's Go Learn, Inc., 2019). This online assessment uses adaptive technology to evaluate 14 areas of mathematics knowledge including: integer operations, fraction operations, decimal operation, comparing and converting, estimating and rounding, evaluating exponents, ratios and proportions, simplifying expressions, coordinate graphing, linear functions, simple equations, geometry, interpreting data, and simple probability. Scores were provided as follows: 0 = not mastered; 0.5 = partially mastered; and 1 = mastered. Cronbach's  $\alpha$  was .80.

This assessment requires a computer with internet access, scratch paper, and headphones. The assessment is administered through Let's Go Learn, Inc.'s website. A fidelity checklist was developed to ensure uniform administration of the DOMA assessments across sites, but it was not utilized during the 2019-2020 school year. Each student logs into their personalized account to complete the assessment. The questions are read aloud to students by the computer during the assessment. The DOMA is untimed, and most students completed the assessment in one sitting, but nine students at school A and D required multiple days to complete the assessment due to class time restrictions.

All students in both the control and treatment groups at both Site 1 and Site 2 completed the DOMA in the fall as a pre-test. At the Site 1 locations, two students in the treatment group were able to complete the DOMA in the spring as a posttest; the remaining students at the Site 1 locations were unable to take the spring DOMA posttest due to closures due to COVID-19. No student at Site 1 locations completed a winter midway test. At Site 2, three treatment students and five control students did not

complete a winter midway test or a spring posttest. Nine treatment students at Site 2 locations completed a winter midway test only, and four treatment students completed both the winter midway test as well as the spring posttest. Six control students at Site 2 completed the spring posttest.

Treatment students (Control students)	Fall	Winter	Spring
Site 1 locations	17 (11)	0	2 (0)
Site 2 locations	16 (11)	13 (0)	4 (6)