

Usage and Performance Data in Support of Catchup Math

July 2010

1) **Motivation/willingness of students to learn from Catchup Math.**

At the end of two 2009 summer school sessions, surveys were taken, one in Madison Middle School of Oakland, California, and one at Alameda High School in Alameda, California. Tabulation for these two questions demonstrates that students are willing users of Catchup Math:

- In the future, would you like to have Catchup Math available to you if you are struggling in math? 81% Yes; 19% No
- If a friend of yours was struggling in math, would you recommend Catchup Math to them? 76% Yes; 24% No

2) **Efficacy and Rates of Progress**

Catchup Math efficacy is shown by the following data from all student users in the month May 2009:

- a) Students using the Catchup Math Proficiency Programs passed more than 28,000 quizzes. Each passed quiz in these programs demonstrates mastery of one-sixth of a full course. On average, students passed a quiz after 2.2 login sessions, which included an average of 4.5 remediation topics reviewed (about 2 topics per session). Based on this data, students given two sessions per week would master all topics within seven weeks.
- b) Students using Catchup Math Graduation Prep Programs passed more than 3,000 quizzes. Each passed quiz in these programs represents one eighth of the full program. On average, students passed a quiz after 2.4 login sessions, which included about 4 topics per session. Based on this data, students given three sessions per week would complete the full program in about eight weeks.

3) **Comparative Performance Study of Schools Based on State Testing**

Catchup Math is substantially based on technology and content from Hotmath.com. A 2004 California study compared exit-exam pass rates in 122 Hotmath-using high schools vs statewide averages. A similar 2004 study compared algebra proficiency between Hotmath middle schools and statewide middle schools. Results indicate a positive correlation with Hotmath use and are detailed below. The following table shows comparative state testing results.

Exam	CA State Average	Hotmath School Average
CA Exit Exam (CAHSEE)	74%	80%
8th Grade Exam (STAR)	35%	62%

Note: Results in the Los Angeles Unified School District for CASHEE pass rates were dramatic: 58% (all LAUSD schools) vs 77% (13 Hotmath schools).