## SUPPLEMENTARY APPENDIX

## Appendix A

Table A1. Data Collection - April 2014-Dec 2016 June 2015

| April 2014-Dec 2014 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Grades 4, 5 | $\begin{gathered} \text { All } \\ (\mathrm{N}=3,026) \end{gathered}$ | Treatment 1 $(\mathrm{N}=1,008)$ | Treatment 2 $(\mathrm{N}=1,008)$ | Control $(\mathrm{N}=1,010)$ |
| April 2014 |  |  |  |  |
| EGRA/EGMA scores | 100\% | 100\% | 100\% | 100\% |
| Oct 2014 |  |  |  |  |
| Assigned Pilot Home Visit 1 | 69\% | 84\% | 84\% | 40\% |
| Oct 2014 |  |  |  |  |
| Received Pilot Home Visit 1 | 36\% | 43\% | 44\% | 20\% |
| Dec 2014 |  |  |  |  |
| EGRA/EGMA scores | 89\% | 90\% | 89\% | 90\% |
| June 2015-June 2017 |  |  |  |  |
| Grades 3, 4, 5 | $\begin{gathered} \text { All } \\ (\mathrm{N}=4,371) \end{gathered}$ | Treatment 1 $(\mathrm{N}=1,456)$ | Treatment 2 $(\mathrm{N}=1,456)$ | Control $(\mathrm{N}=1,459)$ |
| June 2015 |  |  |  |  |
| Pilot EGRA/EGMA scores: |  |  |  |  |
| Grade 4, 5 in 2014 | 86\% | 84\% | 85\% | 87\% |
| June 2015 |  |  |  |  |
| EGRA/EGMA scores: |  |  |  |  |
| Grade 3 in 2014 | 100\% | 100\% | 100\% | 100\% |
| Oct 2015 |  |  |  |  |
| Assigned Home Visit 2 | 100\% | 100\% | 100\% | 100\% |
| Oct 2015 |  |  |  |  |
| Received Home Visit 2 | 67\% | 70\% | 68\% | 64\% |
| Dec 2015 |  |  |  |  |
| EGRA/EGMA scores | 68\% | 69\% | 68\% | 68\% |
| June 2016 |  |  |  |  |
| EGRA/EGMA scores | 87\% | 88\% | 88\% | 86\% |
| Dec 2016 |  |  |  |  |
| EGRA/EGMA scores | 84\% | 84\% | 85\% | 85\% |
| June 2017 |  |  |  |  |
| EGRA/EGMA scores | 77\% | 79\% | 76\% | 77\% |

Notes: June 2016 and Dec 2016 EGRA/EGMA assessments included only those students who were enrolled in either grade 3 or grade 4 in 2014. Students who were in grade 5 in 2014 were not followed in 2016. June 2017 EGRA/EGMA assessments included only those students who were enrolled in grade 3 in 2014. Students who were in grades 4 or 5 in 2014 were not followed in 2017.

Table A2. Baseline balance table

|  | Analysis <br> sample | Treatment 1 | Treatment 2 | Control | Difference <br> (T1 vs. | ifference <br> (T2 vs. |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
| Control) | Control) |  |  |  |  |  |

Years of education mother/stepmother

| 8.27 | 8.20 | 8.39 | 8.21 | 0.04 | 0.24 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $(3.63)$ | $(3.60)$ | $(3.62)$ | $(3.68)$ | $[0.22]$ | $[0.22]$ |

Family income
(in \# of minimum salaries)

| Less than 1 MS | 0.24 | 0.24 | 0.23 | 0.24 | -0.01 | -0.02 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(0.43)$ | $(0.43)$ | $(0.42)$ | $(0.43)$ | $[0.02]$ | $[0.02]$ |
| 1 MS | 0.53 | 0.52 | 0.54 | 0.53 | 0.01 | 0.03 |
|  | $(0.50)$ | $(0.50)$ | $(0.50)$ | $(0.50)$ | $[0.03]$ | $[0.03]$ |
| Between 1-2 MS | 0.18 | 0.19 | 0.18 | 0.18 | 0.02 | 0.00 |
|  | $(0.39)$ | $(0.40)$ | $(0.38)$ | $(0.38)$ | $[0.02]$ | $[0.02]$ |
| More than 2 MS | 0.04 | 0.04 | 0.04 | 0.05 | -0.01 | -0.01 |
|  | $(0.20)$ | $(0.19)$ | $(0.20)$ | $(0.23)$ | $[0.01]$ | $[0.01]$ |

Parent beliefs about student performance Words read
Number of correct sums

| 19.32 | 18.97 | 19.32 | 19.82 | $-0.81^{* *}$ | -0.44 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $(4.80)$ | $(5.02)$ | $(5.05)$ | $(4.03)$ | $[0.32]$ | $[0.32]$ |

Number of correct subtractions

Number of correct problems
4.32
(1.32)

Parent investment Involvement - Ask about school (days/week)

Involvement - Help
studying (days/week)

| 4.85 | 4.87 | 4.86 | 4.80 | $0.07^{* *}$ | $0.06^{*}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $(0.57)$ | $(0.54)$ | $(0.52)$ | $(0.69)$ | $[0.03]$ | $[0.03]$ |


| 4.15 | 4.17 | 4.19 | 4.06 | $0.14^{*}$ | $0.16^{* *}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $(1.41)$ | $(1.39)$ | $(1.38)$ | $(1.46)$ | $[0.08]$ | $[0.08]$ |

Involvement - Read with her/him
(days/week)

| 3.14 | 3.20 | 3.12 | 3.07 | 0.16 | 0.09 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $(1.89)$ | $(1.89)$ | $(1.85)$ | $(1.93)$ | $[0.11]$ | $[0.11]$ |
|  |  |  |  |  |  |
| 4.60 | 4.58 | 4.63 | 4.58 | 0.01 | 0.07 |
| $(0.97)$ | $(1.06)$ | $(0.89)$ | $(0.96)$ | $[0.06]$ | $[0.06]$ |

Involvement - Ask
about grades (days/week)

| 4.64 | 4.67 | 4.64 | 4.61 | 0.04 | 0.01 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $(0.93)$ | $(0.86)$ | $(0.95)$ | $(1.00)$ | $[0.05]$ | $[0.05]$ |

## Parent relationship with the school

Guardians' meetings

| (always) | 0.86 | 0.87 | 0.87 | 0.86 | 0.01 | 0.01 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(0.34)$ | $(0.34)$ | $(0.34)$ | $(0.35)$ | $[0.02]$ | $[0.02]$ |
| Parents' school <br> (always) | 0.48 | 0.47 | 0.47 | 0.51 | -0.03 | -0.03 |
|  | $(0.50)$ | $(0.50)$ | $(0.50)$ | $(0.50)$ | $[0.03]$ | $[0.03]$ |
| School activities <br> (always) | 0.68 | 0.68 | 0.70 | 0.65 | 0.03 | $0.05^{*}$ |
|  | $(0.47)$ | $(0.47)$ | $(0.46)$ | $(0.48)$ | $[0.03]$ | $[0.03]$ |
| Meetings with | 0.70 | 0.70 | 0.71 | 0.66 | $0.05^{*}$ | $0.05^{* *}$ |
| teachers (always) | $(0.46)$ | $(0.46)$ | $(0.45)$ | $(0.47)$ | $[0.03]$ | $[0.03]$ |
|  | 2,057 | 783 | 775 | 499 |  |  |
| Observations |  |  |  |  |  |  |

First and second columns contain means with standard deviations in parentheses. For students in grades 4 and 5 in 2014, the baseline test score was collected in April 2014. For students in grade 3 in 2014, the baseline test score was collected in June 2015, when students were in grade 4. For students in grades 4 and 5, the initial home visit was conducted in October 2014. For students in grade 3 in 2014, the initial home visit was conducted in October 2015. Observations in the first column include all students who were ever assigned to the treatment condition. This includes students who received the treatment in December 2014 and 2015, and students who received the treatment in December 15. The third column includes the difference between students in the treatment and control groups, with asterisks indicating the p-value from a regression of the row variable on an indicator treatment status and grade indicators. Standard error in brackets. * $\mathrm{p}<0.10,{ }^{* *} \mathrm{p}<0.05, * * * \mathrm{p}<0.01$.

Table A3. Correlations between measures of student performance over time and across subjects

| Grade 5 in 2014 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Baseline | Dec 2014 | June 2015 | -- | -- | Between math and reading |
| Baseline | 1 |  |  |  |  | 0.135* |
| Dec 2014 | 0.584* | 1 |  |  |  | 0.223* |
| June 2015 | 0.532* | 0.564* | 1 |  |  | 0.231* |
| Dec 2015 | 0.434* | 0.447* | 0.513* |  |  | 0.251* |
| Grade 4 in 2014 |  |  |  |  |  |  |
|  | Baseline | Dec 2014 | June 2015 | Dec 2015 | June 2016 |  |
| Baseline | 1 |  |  |  |  | 0.062+ |
| Dec 2014 | 0.463* | 1 |  |  |  | 0.187* |
| June 2015 | 0.430* | 0.529* | 1 |  |  | 0.254* |
| Dec 2015 | 0.399* | 0.476* | 0.618* | 1 |  | 0.240* |
| June 2016 | 0.396* | 0.425* | 0.486* | 0.491* | 1 | 0.343* |
| Dec 2016 | 0.321* | 0.430* | 0.531* | 0.496* | 0.508* | 0.357* |
| Grade 3 in 2014 |  |  |  |  |  |  |
|  | Baseline | Dec 2015 | June 2016 | Dec 2016 | -- |  |
| Baseline | 1 |  |  |  |  | 0.197* |
| Dec 2015 | 0.516* | 1 |  |  |  | 0.200* |
| June 2016 | 0.507* | 0.460* | 1 |  |  | 0.286* |
| Dec 2016 | 0.516* | 0.455* | 0.488* | 1 |  | 0.280* |
| June 2017 | 0.262* | 0.309* | 0.300* | 0.336* |  | 0.362* |

$+\mathrm{p}<0.05 * \mathrm{p}<0.01$

Table A4. Differential test-taking and missingness

|  | Missing outcome <br> Dec 2015 | Missing <br> outcome June <br> 2016 | Missing <br> outcome Dec <br> 2016 | Missing <br> outcome June <br> 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Treatment 1 | -0.002 | -0.019 | 0.004 | -0.022 |
|  | $(0.017)$ | $(0.015)$ | $(0.017)$ | $(0.028)$ |
| Treatment 2 | 0.004 | -0.021 | -0.003 | 0.009 |
|  | $(0.017)$ | $(0.015)$ | $(0.017)$ | $(0.028)$ |
| Constant | $0.316^{* * *}$ | $0.140^{* * *}$ | $0.155^{* * *}$ | $0.234^{* * *}$ |
|  | $(0.012)$ | $(0.011)$ | $(0.012)$ | $(0.020)$ |
| N | 4,371 | 2,765 | 2,765 | 1,345 |
| Overall \% missing | $32 \%$ | $13 \%$ | $16 \%$ | $23 \%$ |

Estimates from regression of indicator for whether student was missing test score in the followup wave on an indicator for treatment status. Standard errors in parentheses.
${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$

Table A5. Attrition as a function of treatment status and baseline test performance

|  | $\begin{aligned} & \text { Attrition: Dec } \\ & 2015 \end{aligned}$ |  | $\begin{gathered} \hline \text { Attrition: June } \\ 2016 \\ \hline \end{gathered}$ |  | $\begin{aligned} & \text { Attrition: Dec } \\ & 2016 \\ & \hline \end{aligned}$ |  | Attrition: June 2017 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Treatment | $\begin{gathered} \hline-0.000 \\ (0.015) \end{gathered}$ | $\begin{gathered} \hline-0.003 \\ (0.020) \end{gathered}$ | $\begin{aligned} & \hline-0.024^{*} \\ & (0.014) \end{aligned}$ | $\begin{aligned} & \hline-0.024 \\ & (0.018) \end{aligned}$ | $\begin{gathered} 0.001 \\ (0.015) \end{gathered}$ | $\begin{gathered} 0.015 \\ (0.019) \end{gathered}$ | $\begin{aligned} & \hline-0.007 \\ & (0.024) \end{aligned}$ | $\begin{gathered} 0.008 \\ (0.032) \end{gathered}$ |
| Baseline composite score | $\begin{aligned} & -0.005 \\ & (0.008) \end{aligned}$ |  | $\begin{gathered} 0.008 \\ (0.007) \end{gathered}$ |  | $\begin{gathered} 0.002 \\ (0.008) \end{gathered}$ |  | $\begin{aligned} & -0.011 \\ & (0.013) \end{aligned}$ |  |
| Treatment* <br> Baseline composite score | $\begin{aligned} & -0.002 \\ & (0.010) \end{aligned}$ |  | $\begin{aligned} & -0.005 \\ & (0.009) \end{aligned}$ |  | $\begin{gathered} 0.000 \\ (0.010) \end{gathered}$ |  | $\begin{gathered} 0.003 \\ (0.016) \end{gathered}$ |  |
| Low baseline performance |  | $\begin{gathered} 0.004 \\ (0.025) \end{gathered}$ |  | $\begin{aligned} & -0.034 \\ & (0.022) \end{aligned}$ |  | $\begin{gathered} 0.002 \\ (0.024) \end{gathered}$ |  | $\begin{gathered} 0.044 \\ (0.040) \end{gathered}$ |
| Treatment* <br> Low <br> baseline performance |  | $\begin{gathered} 0.007 \\ (0.031) \end{gathered}$ |  | $\begin{gathered} 0.003 \\ (0.027) \end{gathered}$ |  | $\begin{aligned} & -0.031 \\ & (0.030) \end{aligned}$ |  | $\begin{aligned} & -0.033 \\ & (0.049) \end{aligned}$ |
| N | 4185 | 4185 | 2705 | 2705 | 2705 | 2705 | 1345 | 1345 |

Note: Standard errors in parentheses. Results based on estimating two groups of models. In the first group, an indicator for attrition in a given follow-up wave is regressed on an indicator for treatment status, students' baseline composite EGRA/EGMA, and the interaction. In the second group, and indicator for attrition in a given follow-up wave is regressed on an indicator for treatment status, and indicator for whether the student had low math or reading performance at baseline, and their interaction. ${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$

Table A6. Association between baseline test score, missing outcome data, and treatment status

|  | Dec 2015 | June 2016 | Dec 2016 | June 2017 |
| :---: | :---: | :---: | :---: | :---: |
| Outcome: Baseline reading performance (standardized) |  |  |  |  |
| Missing outcome data | $\begin{aligned} & -0.100^{*} \\ & (0.058) \end{aligned}$ | $\begin{gathered} 0.166^{*} \\ (0.099) \end{gathered}$ | $\begin{gathered} 0.075 \\ (0.095) \end{gathered}$ | $\begin{gathered} 0.034 \\ (0.117) \end{gathered}$ |
| Treatment 1/2 | $\begin{aligned} & -0.042 \\ & (0.040) \end{aligned}$ | $\begin{aligned} & -0.010 \\ & (0.045) \end{aligned}$ | $\begin{aligned} & -0.029 \\ & (0.046) \end{aligned}$ | $\begin{aligned} & -0.007 \\ & (0.069) \end{aligned}$ |
| Treatment $1 / 2^{*}$ Missing outcome data | $\begin{gathered} -0.004 \\ (0.071) \end{gathered}$ | $\begin{gathered} -0.149 \\ (0.124) \end{gathered}$ | $\begin{gathered} -0.020 \\ (0.116) \end{gathered}$ | $\begin{gathered} -0.049 \\ (0.144) \end{gathered}$ |
| N | 4,362 | 2,761 | 2,761 | 1,345 |
| Outcome: Baseline math performance (standardized) |  |  |  |  |
| Missing outcome data | $\begin{gathered} 0.028 \\ (0.057) \end{gathered}$ | $\begin{aligned} & -0.001 \\ & (0.094) \end{aligned}$ | $\begin{gathered} -0.034 \\ (0.091) \end{gathered}$ | $\begin{aligned} & -0.187^{*} \\ & (0.110) \end{aligned}$ |
| Treatment 1/2 | $\begin{aligned} & -0.040 \\ & (0.039) \end{aligned}$ | $\begin{aligned} & -0.017 \\ & (0.043) \end{aligned}$ | $\begin{aligned} & -0.016 \\ & (0.044) \end{aligned}$ | $\begin{aligned} & -0.068 \\ & (0.065) \end{aligned}$ |
| Treatment $1 / 2^{*}$ Missing outcome data | $\begin{aligned} & -0.005 \\ & (0.070) \end{aligned}$ | $\begin{gathered} 0.016 \\ (0.118) \end{gathered}$ | $\begin{gathered} 0.010 \\ (0.111) \end{gathered}$ | $\begin{gathered} 0.074 \\ (0.135) \end{gathered}$ |
| N | 4,190 | 2,709 | 2,709 | 1,345 |

Estimates from regression of baseline EGRA and EGMA scores on an indicator for whether student was missing test score in the follow-up wave, indicators for treatment status, and the interactions between the indicator for missing test score in the follow-up wave and indicators for treatment status. Standard errors in parentheses.
${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A7. Correlations between parent beliefs, student performance, school performance, and parent behaviors at baseline

|  | $\begin{array}{c}\text { Gap between baseline student }\end{array}$ |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | performance and parent beliefs |  |  |  |$)$

Note: All pairwise correlations at the child/household level. School performance calculated based on the average of students in the analytic sample within the same grade and school. ${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A8. Impact of pilot intervention on parent behavior

|  | (1) <br> Parent index | (2) <br> Parent index |
| :---: | :---: | :---: |
| Pilot Treatment 1 (Individual information) | $\begin{gathered} 0.064 \\ (0.055) \end{gathered}$ |  |
| Pilot Treatment 2 (School information) | $\begin{aligned} & 0.110^{* *} \\ & (0.055) \end{aligned}$ |  |
| Pilot Treatment 1/2 |  | $\begin{gathered} 0.052 \\ (0.064) \end{gathered}$ |
| Pilot Treatment 1/2* Low baseline math and/or reading performance |  | $\begin{gathered} 0.088 \\ (0.100) \end{gathered}$ |
| Impact on low-performing students <br> Observations | 1976 | $\begin{gathered} 0.139 \\ 1869 \end{gathered}$ |
| Note: Standard errors in parentheses. Outcome is calculated by the following: Individual measures of parent behaviors (days/week asked about school, helped with studying, read with child, helped with homework, asked about grades) were standardized with respect to the overall sample. The average of these standardize measures was standardized again to form the composite index. All models include controls for age, gender, and baseline math and reading scores.${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$ |  |  |

Table A9. Impact of pilot intervention on parents' satisfaction with the school

|  | (1) Overall quality | (2) Discipline and order | (3) <br> Infrastructure | (4) <br> Information | (5) <br> Teacher quality | (6) <br> Teacher disposition |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Overall impact of pilot intervention |  |  |  |  |  |  |
| Pilot | -0.041 | $-0.140^{* *}$ | -0.081 | $-0.130^{* *}$ | -0.059 | -0.081 |
| Treatment 1 | (0.063) | (0.062) | (0.062) | (0.063) | (0.063) | (0.063) |
| Pilot | 0.011 | -0.149** | -0.052 | -0.091 | -0.017 | -0.039 |
| Treatment 2 | (0.064) | (0.062) | (0.063) | (0.063) | (0.063) | (0.063) |
| Observations | 1970 | 1970 | 1970 | 1970 | 1970 | 1970 |
| Variation baseline on baseline student performance |  |  |  |  |  |  |
| Pilot Treatment 1/2 | $\begin{gathered} 0.006 \\ (0.074) \end{gathered}$ | $\begin{gathered} -0.158^{* *} \\ (0.072) \end{gathered}$ | $\begin{aligned} & -0.010 \\ & (0.072) \end{aligned}$ | $\begin{aligned} & -0.031 \\ & (0.073) \end{aligned}$ | $\begin{aligned} & -0.006 \\ & (0.073) \end{aligned}$ | $\begin{aligned} & -0.036 \\ & (0.073) \end{aligned}$ |
| Pilot <br> Treatment 1/2* Low baseline math and/or reading performance | $\begin{aligned} & -0.083 \\ & (0.116) \end{aligned}$ | $\begin{gathered} 0.017 \\ (0.113) \end{gathered}$ | $\begin{aligned} & -0.174 \\ & (0.114) \end{aligned}$ | $\begin{aligned} & -0.215^{*} \\ & (0.115) \end{aligned}$ | $\begin{aligned} & -0.054 \\ & (0.114) \end{aligned}$ | $\begin{aligned} & -0.064 \\ & (0.114) \end{aligned}$ |
| Observations | 1863 | 1863 | 1863 | 1863 | 1863 | 1863 |

Note: Standard errors in parentheses. Results based on estimating ordered probit models. All outcomes are ordinal variables for parental satisfaction, with the lowest value being "Very unsatisfied," "Unsatisfied," or "Neither satisfied nor unsatisfied;" $2=$ "Satisfied;" and $3=$ "Very satisfied." All models include controls for age, gender, grade, and baseline math and reading scores.

$$
{ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01
$$

Table A10. Impact of pilot intervention on composite test score outcomes
(1)

Dec 2014

$$
-0.010
$$

(0.046)

Pilot Treatment 2
(School information) $\quad-0.060 \quad 0.003$
(0.046)

Observations 2661 2593

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group at baseline. The sum of the standardized reading and math scores were calculated for each wave. Composite scores for each follow-up wave were standardized again with respect to the composite score for the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores. Models include students who were enrolled in grades 4 or 5 in 2014. * $p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A11. Impact of information intervention on composite test score outcomes

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Outcome: Composite test score |  |  |  |  |
| Treatment 1 | $0.096^{* *}$ | 0.086 | -0.054 | -0.051 |
|  | $(0.043)$ | $(0.077)$ | $(0.082)$ | $(0.118)$ |
| Treatment 2 | $0.085^{* *}$ | $0.131^{*}$ | -0.101 | 0.011 |
|  | $(0.043)$ | $(0.077)$ | $(0.082)$ | $(0.119)$ |
| Observations | 2984 | 2416 | 2336 | 1036 |
| Outcome: Reading performance (standardized) |  |  |  |  |
| Treatment 1 | $0.074^{*}$ | 0.050 | -0.061 | -0.003 |
|  | $(0.040)$ | $(0.092)$ | $(0.098)$ | $(0.139)$ |
| Treatment 2 | 0.066 | 0.100 | -0.112 | 0.045 |
|  | $(0.040)$ | $(0.092)$ | $(0.097)$ | $(0.141)$ |
| Observations | 2987 | 2416 | 2336 | 1036 |
| Outcome: Math performance $($ standardized) |  |  |  |  |
| Treatment 1 | 0.069 | 0.079 | -0.020 | -0.076 |
|  | $(0.043)$ | $(0.048)$ | $(0.049)$ | $(0.078)$ |
| Treatment 2 | 0.059 | $0.097^{* *}$ | -0.041 | -0.028 |
|  | $(0.044)$ | $(0.048)$ | $(0.049)$ | $(0.078)$ |
| Observations | 2984 | 2416 | 2336 | 1036 |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group at baseline. The sum of the standardized reading and math scores were calculated for each wave. Composite scores for each follow-up wave were standardized again with respect to the composite score for the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores. First column includes students who were enrolled in grades 3,4 or 5 in 2014. Second and third columns include students who were enrolled in grades 3 or 4 in 2014. Fourth column includes students who were enrolled in grade 3 in 2014.

$$
{ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01 .
$$

Table A12. Impacts of information intervention on composite test score outcome, separately by grade and using only students with outcome information in all grades

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Grade 5 in 2014 |  |  |  |  |
| Treatment 1 | $0.116^{*}$ | -- | - | -- |
|  | $(0.062)$ |  |  |  |
| Treatment 2 | $0.187^{* * *}$ |  |  |  |
|  | $(0.063)$ |  |  |  |
| Observations | 989 |  |  |  |
| Grade 4 in 2014 |  |  |  |  |
| Treatment 1 | 0.068 | $0.295^{*}$ | 0.123 |  |
|  | $(0.109)$ | $(0.155)$ | $(0.156)$ | -0.043 |
| Treatment 2 | 0.045 | 0.229 | $(0.154)$ |  |
|  | $(0.107)$ | $(0.153)$ | 833 |  |
| Observations | 833 | 833 |  |  |
| Grade 3 in 2014 |  |  |  |  |
| Treatment 1 | 0.065 | 0.050 | -0.041 | -0.185 |
|  | $(0.068)$ | $(0.100)$ | $(0.105)$ | $(0.137)$ |
| Treatment 2 | 0.023 | 0.108 | -0.064 | -0.107 |
|  | $(0.070)$ | $(0.102)$ | $(0.108)$ | $(0.141)$ |
| Observations | 779 | 779 | 779 | 779 |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group. The sum of the standardized reading and math scores were calculated for baseline and each wave. Composite scores for each follow-up wave were standardized again with respect to the composite score for the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores.

* $p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A13. Impact of information intervention on being at score ceiling - Separately by subject

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Student at ceiling for number of words read |  |  |  |  |
| Treatment 1 | $0.036^{*}$ | 0.002 | -0.006 | 0.006 |
|  | $(0.022)$ | $(0.021)$ | $(0.011)$ | $(0.014)$ |
| Treatment 2 | 0.034 | 0.009 | 0.000 | 0.008 |
|  | $(0.022)$ | $(0.021)$ | $(0.011)$ | $(0.014)$ |
| Observations | 2979 | 2650 | 2527 | 1036 |
| Control mean | 0.44 | 0.26 | 0.06 | 0.03 |
| Student at ceiling for number of correct subtractions |  |  |  |  |
| Treatment 1 | -0.002 | 0.013 | -0.004 | -0.016 |
|  | $(0.012)$ | $(0.010)$ | $(0.011)$ | $(0.014)$ |
| Treatment 2 | 0.014 | 0.010 | -0.002 | -0.005 |
|  | $(0.012)$ | $(0.010)$ | $(0.011)$ | $(0.014)$ |
| Observations | 2888 | 2594 | 2475 | 1036 |
| Control mean | 0.08 | 0.04 | 0.06 | 0.04 |

Note: Standard errors in parentheses. All models include controls for age, gender, grade, and baseline math and reading scores.
${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A14. Impact of information intervention on student reading and math outcomes, by gap between baseline reading student performance and parent beliefs

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Number of correct words read (standardized) |  |  |  |  |
| Treatment $1 / 2$ | 0.057 | $0.387^{* * *}$ | 0.036 | 0.026 |
|  | $(0.049)$ | $(0.107)$ | $(0.117)$ | $(0.153)$ |
| Treatment | $0.005^{* *}$ | $0.021^{* * *}$ | $0.012^{*}$ | -0.009 |
| $1 / 2^{*}$ Abs(Gap, reading) | $(0.003)$ | $(0.006)$ | $(0.007)$ | $(0.009)$ |
|  | 1484 | 1338 | 1287 | 742 |
| Observations |  |  |  |  |
| Number of correct subtractions (standardized) |  | -0.041 | -0.063 |  |
| Treatment $1 / 2$ | 0.030 | 0.085 | $(0.062)$ | $(0.079)$ |
|  | $(0.060)$ |  |  |  |
| Treatment $1 / 2^{*}$ |  |  | -0.019 | -0.006 |
| Abs(Gap, subtractions) | -0.014 | $-0.025^{* *}$ | $(0.012)$ | $(0.016)$ |
|  | $(0.012)$ | $(0.012)$ | 1309 | 762 |
| Observations | 1476 | 1361 |  |  |

Note: Standard errors in parentheses. Reading scores were standardized within grade with respect to the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores.
${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A15. Impact of information intervention on student reading and math outcomes, by whether parents over-predict student performance at baseline

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Number of correct words read (standardized) |  |  |  |  |
| Treatment $1 / 2$ | 0.074 | $0.237^{*}$ | -0.004 | -0.239 |
|  | $(0.057)$ | $(0.124)$ | $(0.135)$ | $(0.178)$ |
| Treatment $1 / 2^{*}$ |  |  |  |  |
| Over-prediction |  |  |  |  |
| of reading performance | -0.087 | 0.242 | -0.046 | $0.797^{* * *}$ |
|  | $(0.110)$ | $(0.232)$ | $(0.254)$ | $(0.302)$ |
| Observations | 1484 | 1338 | 1287 | 742 |
| Number of correct subtractions (standardized) |  |  |  |  |
| Treatment $1 / 2$ | -0.057 | 0.178 | -0.019 | $-0.256^{*}$ |
|  | $(0.120)$ | $(0.119)$ | $(0.118)$ | $(0.153)$ |
| Treatment $1 / 2^{*}$ |  |  |  |  |
| Over-prediction of math |  |  |  |  |
| performance | 0.122 | -0.121 | -0.014 | 0.286 |
|  | $(0.138)$ | $(0.139)$ | $(0.139)$ | $(0.178)$ |
| Observations | 1476 | 1361 | 1309 | 762 |

Note: Standard errors in parentheses. Reading scores were standardized within grade with respect to the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores. Over-prediction of baseline performance is an indicator for whether parents' predicted student performance at the initial home visit (i.e., number of words read, number of correct subtractions) was above the student's actual performance at baseline (i.e., number of words read, number of correct subtractions).

* $p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A16. Impact of information intervention on student reading and math outcomes, by parents' initial beliefs about relative student and school performance
(1) (2) (3)

|  | Dec 2015 | June 2016 | Dec 2016 | June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Treatment $1 / 2$ | 0.057 | $0.357^{* * *}$ | 0.107 | 0.075 |
|  | $(0.072)$ | $(0.113)$ | $(0.121)$ | $(0.157)$ |
| Treatment 1/2* Low parent beliefs about |  |  |  |  |
| student relative performance ${ }^{\text {a }}$ | 0.015 | -0.275 | -0.304 | -0.127 |
|  | $(0.112)$ | $(0.181)$ | $(0.196)$ | $(0.244)$ |
| Low parent beliefs about student relative |  |  |  |  |
| performance | -0.030 | 0.225 | 0.017 | 0.129 |
|  | $(0.097)$ | $(0.158)$ | $(0.170)$ | $(0.206)$ |
| Impacts for student with high parent beliefs | 0.057 | $0.357^{* * *}$ | 0.107 | 0.075 |
| Impacts for student with low parent beliefs | 0.072 | 0.082 | -0.197 | -0.053 |
| Observations | 1519 | 1378 | 1326 | 764 |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group. The sum of the standardized reading and math scores were calculated, and standardized again with respect to the control group, to form the composite score. All models include controls for age, gender, and baseline math and reading scores. First column includes students who were enrolled in grades 3 , 4 or 5 in 2014. Second and third columns include students who were enrolled in grades 3 or 4 in 2014. Fourth column includes students who were enrolled in grade 3 in 2014.
${ }^{\text {a }}$ Low parent beliefs is an indicator for whether parent beliefs regarding the number of words read and/or correct subtractions by the student is less than parent beliefs regarding the average number of words read/correct subtractions in the student's school.

Table A17. Impact of information intervention on composite test score outcomes, by gender

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Treatment $1 / 2$ | 0.013 | 0.109 | $-0.207^{* *}$ | -0.034 |
|  | $(0.051)$ | $(0.092)$ | $(0.097)$ | $(0.140)$ |
| Treatment $1 / 2^{*}$ Gender - | $0.166^{* *}$ | -0.001 | $0.277^{*}$ | 0.028 |
| Female |  |  |  |  |
|  | $(0.075)$ | $(0.135)$ | $(0.142)$ | $(0.206)$ |
| Observations | 2984 | 2416 | 2336 | 1036 |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group at baseline. The sum of the standardized reading and math scores were calculated for baseline and each wave. Composite scores for each follow-up wave were standardized again with respect to the composite score for the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores.
${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A18. Impact on composite test score outcomes, by baseline performance

|  | (1) <br> Dec 2015 | (2) <br> June 2016 | (3) <br> Dec 2016 | (4) June 2017 |
| :---: | :---: | :---: | :---: | :---: |
| Low baseline performance: Below $25^{\text {th }}$ percentile in math or reading at baseline |  |  |  |  |
| Treatment 1/2 | $\begin{gathered} \hline-0.013 \\ (0.049) \end{gathered}$ | $\begin{gathered} \hline 0.010 \\ (0.089) \end{gathered}$ | $\begin{gathered} \hline-0.081 \\ (0.094) \end{gathered}$ | $\begin{gathered} \hline 0.001 \\ (0.135) \end{gathered}$ |
| Treatment $1 / 2 *$ Low baseline perf. | $\begin{gathered} 0.216^{* * *} \\ (0.077) \end{gathered}$ | $\begin{aligned} & 0.268^{* *} \\ & (0.136) \end{aligned}$ | $\begin{gathered} -0.011 \\ (0.144) \end{gathered}$ | $\begin{gathered} -0.051 \\ (0.208) \end{gathered}$ |
| Impact on lowperforming students Observations | $\begin{gathered} 0.203^{* * *} \\ 2884 \\ \hline \end{gathered}$ | $\begin{gathered} 0.278^{* * *} \\ 2365 \\ \hline \end{gathered}$ | $\begin{gathered} -0.092 \\ 2290 \\ \hline \end{gathered}$ | $\begin{gathered} -0.050 \\ 1036 \end{gathered}$ |
| Measure of baseline performance: Continuous baseline composite math and reading score |  |  |  |  |
| Treatment 1/2 | $\begin{aligned} & 0.076^{* *} \\ & (0.038) \end{aligned}$ | $\begin{aligned} & 0.124^{*} \\ & (0.067) \end{aligned}$ | $\begin{gathered} -0.090 \\ (0.071) \end{gathered}$ | $\begin{gathered} -0.020 \\ (0.103) \end{gathered}$ |
| Treatment 1/2*Baseline composite score | $\begin{aligned} & -0.047^{*} \\ & (0.026) \end{aligned}$ | $\begin{gathered} -0.021 \\ (0.044) \end{gathered}$ | $\begin{gathered} -0.002 \\ (0.047) \end{gathered}$ | $\begin{gathered} -0.013 \\ (0.067) \end{gathered}$ |
| Observations | 2884 | 2365 | 2290 | 1036 |
| Low baseline performance: Below 25 th percentile on composite math and reading score |  |  |  |  |
| Treatment 1/2 | $\begin{gathered} 0.029 \\ (0.043) \end{gathered}$ | $\begin{gathered} 0.088 \\ (0.078) \end{gathered}$ | $\begin{aligned} & -0.080 \\ & (0.082) \end{aligned}$ | $\begin{aligned} & -0.033 \\ & (0.118) \end{aligned}$ |
| Treatment $1 / 2 *$ Low baseline perf. | $\begin{aligned} & 0.197^{* *} \\ & (0.089) \end{aligned}$ | $\begin{gathered} 0.144 \\ (0.155) \end{gathered}$ | $\begin{aligned} & -0.028 \\ & (0.165) \end{aligned}$ | $\begin{gathered} 0.051 \\ (0.241) \end{gathered}$ |
| Impact on lowperforming students Observations | $\begin{gathered} 0.227^{* * *} \\ 2884 \end{gathered}$ | $\begin{gathered} 0.232^{*} \\ 2365 \end{gathered}$ | $\begin{gathered} -0.108 \\ 2290 \end{gathered}$ | $\begin{gathered} 0.019 \\ 1036 \end{gathered}$ |
| Low baseline performance: Below 50th percentile on composite math and reading score |  |  |  |  |
| Treatment 1/2 | $\begin{gathered} \hline 0.003 \\ (0.053) \end{gathered}$ | $\begin{gathered} \hline 0.050 \\ (0.095) \end{gathered}$ | $\begin{aligned} & \hline-0.059 \\ & (0.100) \end{aligned}$ | $\begin{gathered} \hline-0.033 \\ (0.141) \end{gathered}$ |
| Treatment $1 / 2$ * Low baseline perf. | $\begin{aligned} & 0.146^{*} \\ & (0.076) \end{aligned}$ | $\begin{gathered} 0.143 \\ (0.134) \end{gathered}$ | $\begin{aligned} & -0.063 \\ & (0.142) \end{aligned}$ | $\begin{gathered} 0.027 \\ (0.206) \end{gathered}$ |
| Impact on lowperforming students Observations | $\begin{gathered} 0.150^{* * *} \\ 2884 \\ \hline \end{gathered}$ | $\begin{gathered} 0.193^{* *} \\ 2365 \\ \hline \end{gathered}$ | $\begin{gathered} -0.122 \\ 2290 \\ \hline \end{gathered}$ | $\begin{gathered} -0.006 \\ 1036 \end{gathered}$ |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group. The sum of the standardized reading and math scores were calculated, and standardized again with respect to the control group, to form the composite score. All models include controls for age, gender, and baseline math and reading scores.
${ }^{*} p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A19. Impact of information intervention on math and reading outcomes, by baseline performance

|  | $(1)$ <br> Dec 2015 | $(2)$ <br> June 2016 | $(3)$ <br> Dec 2016 | $(4)$ <br> June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Number of correct words read (standardized) |  |  |  |  |
| Treatment $1 / 2$ | -0.006 | -0.003 | -0.122 | -0.045 |
|  | $(0.040)$ | $(0.092)$ | $(0.098)$ | $(0.141)$ |
| Treatment $1 / 2$ *Low | $0.290^{* * *}$ | 0.283 | 0.116 | 0.241 |
| baseline reading | $(0.081)$ | $(0.181)$ | $(0.193)$ | $(0.275)$ |
|  |  |  |  |  |
| Impact on low- | $0.283^{* * *}$ | $0.280^{*}$ | -0.006 | 0.196 |
| performing students | 2981 | 2412 | 2332 | 1036 |
| Observations | 0.037 | $0.106^{* *}$ | -0.037 | -0.013 |
| Number of correct subtractions (standardized) | $(0.049)$ | $(0.050)$ | $(0.078)$ |  |
| Treatment $1 / 2$ | $(0.044)$ | -0.029 | 0.011 | -0.144 |
|  |  | $(0.095)$ | $(0.098)$ | $(0.156)$ |
| Treatment $1 / 2^{*}$ Low | 0.073 | 0.077 | -0.026 | -0.157 |
| baseline math | $(0.087)$ | 2369 | 2294 | 1036 |
|  |  | 0.110 | 2888 |  |
| Impact on low- |  |  |  |  |
| performing students | Observations |  |  |  |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group. The sum of the standardized reading and math scores were calculated, and standardized again with respect to the control group, to form the composite score. All models include controls for age, gender, and baseline math and reading scores.

* $p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.

Table A20. Impact of information intervention on math and reading outcomes, by baseline performance

|  | (1) <br> Dec 2015 | $\begin{gathered} \hline(2) \\ \text { June } 2016 \end{gathered}$ | $\begin{gathered} \text { (3) } \\ \text { Dec } 2016 \end{gathered}$ | $\begin{gathered} \hline(4) \\ \text { June } 2017 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: |
| Number of correct words read (standardized) |  |  |  |  |
| Treatment 1/2 | $\begin{aligned} & -0.030 \\ & (0.046) \end{aligned}$ | $\begin{aligned} & -0.057 \\ & (0.106) \end{aligned}$ | $\begin{aligned} & -0.082 \\ & (0.111) \end{aligned}$ | $\begin{gathered} 0.044 \\ (0.160) \end{gathered}$ |
| Treatment 1/2*Low baseline reading or math | $\begin{gathered} 0.206^{* * *} \\ (0.071) \end{gathered}$ | $\begin{aligned} & 0.342^{* *} \\ & (0.161) \end{aligned}$ | $\begin{gathered} -0.031 \\ (0.171) \end{gathered}$ | $\begin{gathered} -0.054 \\ (0.246) \end{gathered}$ |
| Impact on lowperforming students Observations | $\begin{gathered} 0.177^{* * *} \\ 2887 \\ \hline \end{gathered}$ | $\begin{gathered} 0.285^{* *} \\ 2365 \\ \hline \end{gathered}$ | $\begin{gathered} -0.114 \\ 2290 \end{gathered}$ | $\begin{gathered} -0.010 \\ 1036 \end{gathered}$ |
| Number of correct subtractions (standardized) |  |  |  |  |
| Treatment 1/2 | $\begin{gathered} \hline 0.014 \\ (0.050) \end{gathered}$ | $\begin{gathered} \hline 0.080 \\ (0.056) \end{gathered}$ | $\begin{aligned} & \hline-0.033 \\ & (0.057) \end{aligned}$ | $\begin{aligned} & \hline-0.042 \\ & (0.089) \end{aligned}$ |
| Treatment $1 / 2^{*}$ Low baseline reading or math | $\begin{gathered} 0.103 \\ (0.077) \end{gathered}$ | $\begin{gathered} 0.040 \\ (0.085) \end{gathered}$ | $\begin{aligned} & -0.001 \\ & (0.087) \end{aligned}$ | $\begin{aligned} & -0.026 \\ & (0.137) \end{aligned}$ |
| Impact on lowperforming students Observations | $\begin{gathered} 0.117^{* *} \\ 2884 \end{gathered}$ | $\begin{gathered} 0.121^{*} \\ 2365 \end{gathered}$ | $\begin{gathered} -0.034 \\ 2290 \\ \hline \end{gathered}$ | $\begin{gathered} -0.067 \\ 1036 \\ \hline \end{gathered}$ |

Note: Standard errors in parentheses. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group. The sum of the standardized reading and math scores were calculated, and standardized again with respect to the control group, to form the composite score. All models include controls for age, gender, and baseline math and reading scores.

* $p<0.10,{ }^{* *} p<0.05,{ }^{* * *} p<0.01$.


Figure A1. Distribution of number of correct problems across first three study waves


Figure A2. Distribution of number of correct sums across first three study waves

## Unadjusted mean reading scores



Figure A3. Unadjusted standardized reading scores across follow-up waves. Note: Reading scores standardized with respect to the control group at baseline.

# Unadjusted mean subtractions scores 



Figure A4. Unadjusted standardized subtractions scores across follow-up waves. Note: Subtractions scores standardized with respect to the control group standard at baseline.


Figure A5. Baseline reading scores: above vs. below $25^{\text {th }}$ percentile. Note: Vertical lines indicate scores at $25^{\text {th }}$ percentile

## Number of correct subtractions at baseline



Figure A6. Baseline reading scores: above vs. below $25^{\text {th }}$ percentile. Note: Vertical lines indicate scores at $25^{\text {th }}$ percentile

## Appendix B

## Details and results of the family-engagement intervention

## Description of the family-engagement intervention

In the third phase of the study (2016-2017) we incorporated a family-engagement component. This component focused on the teachers of the students already in the experiment. In July 2016, teachers were randomly assigned to one of two groups. In the treatment group (Familyengagement intervention), teachers received a report card containing test score information, collected in June 2016, for the students in their class. We provided teachers with information on all students in their class, regardless of whether they had received they had participated in Phase 1 or Phase 2 of the study, and regardless of whether the household had received individual information or not. Teachers also received a list of suggestions to promote family-school engagement, with two components. First, a list of suggestions on how to improve their communication with the families. Second, a list of suggestions on how to encourage families to engage with their children's education outside of the school. No information was provided to teachers in the control group.

To implement this intervention, teachers were visited at their schools. A questionnaire was administered to all teachers. Only teachers assigned to the treatment group received the report card mentioned above. In December 2016 and June 2017, we administered new rounds of EGRA and EGMA tests to all students in our sample.

## Results of the family-engagement intervention

We test two specifications to examine the impact of the teacher intervention. In the first specification, we examine the differences in students' results based on whether they were in a classroom with a treated or control teacher. In the second specification, we test the interaction between teacher group (treatment/control) and students group (treatment/control). The effects of the intervention of teachers are null.

It may be the case that the intervention did not provide new information to teachers; teachers had knowledge of their students' abilities but were unable to act upon it. Alternatively, the intervention may have provided new information to teachers, but the receipt of this new information did not change teacher behaviors. did in fact provide new information to teachers, but teachers were unable to act on it. We can not rule out any of these (plausible) hypotheses.

Table B1. Impact of the family-engagement intervention

|  | Dec. 2016 | Dec. 2016 | June 2017 | June 2017 |
| :--- | :---: | :---: | :---: | :---: |
| Math and reading composite |  |  |  |  |
| Teacher treatment | -0.073 | -0.035 | -0.174 | 0.022 |
|  | $(0.129)$ | $(0.176)$ | $(0.162)$ | $(0.225)$ |
| Teacher treatment* |  |  |  |  |
| Individual treatment |  | -0.038 |  | -0.290 |
|  | $(0.157)$ |  | $(0.222)$ |  |
| Observations | 2049 | 2049 | 965 | 965 |
| Control mean | 2.260 |  | 2.286 |  |

Teacher treatment $=$ Teacher was assigned to the treatment condition of the family-engagement intervention in Phase 3. Individual treatment $=$ Student was assigned to the treatment condition of the household information intervention in Phase 1 or Phase 2. Composite math and reading score calculated by the following: Reading and math (subtractions) scores were standardized within grade with respect to the control group. The sum of the standardized reading and math scores were calculated for baseline and each wave. Composite scores for each follow-up wave were standardized again with respect to the composite score for the control group at baseline. All models include controls for age, gender, grade, and baseline math and reading scores. Standard errors in parentheses clustered at the teacher level. ${ }^{*} p<0.10,{ }^{* *} p<0.05$, *** $p<0.01$.

