Learning Outcome Assessment Report

Chhattisgarh
Jharkhand
and
Haryana State

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2018 results of Chhattisgarh were 39% better compared to 2017 test with no intervention.

- Impact was higher for across the classes in English (48%) than that of Math.
- The highest measured improvement in performance was ~65% in some districts.

The positive impact suggests the need of more years of intervention (for longer period) to see more impact year-on-year and also need to implement it in higher classes across the target states.
Control vs. Intervention group - Math Results

In Chhattisgarh, for Class 3 and Class 4 Math, students have outperformed in all competencies as compared to the control group.

- The overall class-wise performance of Chhattisgarh for Math also show better results as compared to the control group.
- Class 4 has shown higher improvement than that of Class 3 in Chhattisgarh.
- The impact of the module was highest for multiplication for the two classes, showing ~47% improvement in the results.
- Replication of the Sampark Shala Math program for higher classes with added competencies are likely to yield positive results.
Control vs. Intervention group - English Results

In Chhattisgarh, for Class 3 and Class 4 English, students have outperformed in all competencies as compared to control group.

- The overall impact created by Sampark on English competencies was higher than that of Math.
- Class 4 has shown higher improvement than that of Class 3.
- The performance of the control group was the least in ‘sounds of alphabet’ and ‘phonic words’, the performance of the intervention group was significantly better at ~56%.
- The performance of the intervention group was significantly high. Across all competencies, the highest score obtained by the Control group was 37%, while 60% was the minimum score obtained by the intervention group.
Control vs. Intervention group - Results of 2018 tests

The intervention group in Jharkhand scored 36% better compared to the control group with no intervention.

- The performance of the two groups were assessed for Class III Math competencies.
- 54% of the students were able to solve basic grade-level mathematics questions correctly after 1 year of intervention, as opposed to only 18% in the control group without the implementation of Sampark Smart Shala.
- After one year of intervention, a growth of 36% was observed in Class 3 Math, moving the average score to more than 50% across the 5 districts of Jharkhand.
- None of the 5 districts in the study had scored more than 50% among the control group while all the districts had scored more than 50% on an average after the intervention.

Replication of the Sampark Shala Math program for higher classes with added competencies are likely to yield positive results.

Continued efforts towards intervention in other subjects is needed for overall improvement in the learning outcomes of students.

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Control vs. Intervention group - Math Results

Math Performance | Competency wise

<table>
<thead>
<tr>
<th>Competency</th>
<th>Control</th>
<th>Intervention</th>
<th>Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number sense</td>
<td>24%</td>
<td>64%</td>
<td>40%</td>
</tr>
<tr>
<td>Double digit addition</td>
<td>28%</td>
<td>64%</td>
<td>36%</td>
</tr>
<tr>
<td>Double digit subtraction</td>
<td>15%</td>
<td>46%</td>
<td>31%</td>
</tr>
<tr>
<td>Single digit multiplication</td>
<td>16%</td>
<td>52%</td>
<td>36%</td>
</tr>
<tr>
<td>Single digit division</td>
<td>8%</td>
<td>46%</td>
<td>38%</td>
</tr>
</tbody>
</table>

For the intervention group (5 Districts in Jharkhand), students have outperformed in all competencies of Class 3 Math as compared to the control group.

- In each competency, a positive impact of 31% is seen after the one year intervention of Sampark.
- Single digit division has been the most challenging competency among the control group, the performance after the intervention has shown an improvement of 38%.
- The impact of the program was the highest for number sense for Class 3, showing ~40% improvement in the results.

* Across the 5 common districts

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Control vs. Intervention group - Math Results

Across Haryana, the performance of Class 3 and Class 4 Math students has been consistent and better for the intervention group as compared to the Control group.

- For Class 3 Math, the Haryana (intervention group) has performed 51% better than the control group (non-intervention).
- For Class 4 Math, the intervention group (intervention group) has performed 46% better than the control group (non-intervention).
- The minimum average score achieved, across the districts of the intervention group, was 42%, while the highest was 87%.
## Performance of districts by competency

<table>
<thead>
<tr>
<th>Competency</th>
<th>Class 3</th>
<th></th>
<th>Class 4</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number Sense</td>
<td>6</td>
<td>9</td>
<td>6</td>
<td>4</td>
</tr>
<tr>
<td>Addition</td>
<td>10</td>
<td>11</td>
<td>3</td>
<td>18</td>
</tr>
<tr>
<td>Subtraction</td>
<td>4</td>
<td>12</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Multiplication</td>
<td>4</td>
<td>11</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Division</td>
<td>10</td>
<td>10</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>State Average</td>
<td>3</td>
<td>13</td>
<td>5</td>
<td>5</td>
</tr>
</tbody>
</table>

For both Grade 3 and 4 Math, 5 districts out of 21 districts had scored above 80% across grade-level Math competencies.

13 Districts had scored between 61-79% on Class 3 Math Competencies and 14 Districts had between 61-79% on Class 4 Math Competencies.

3 Districts had scored between <=60% on Class 3 Math Competencies and 2 Districts had scored between <=60% on Class 4 Math Competencies.

- The performance in the competency 'addition' has been the highest for Class 4, where 18 out of 21 districts had scored more than 80%.
- Division is the most challenging among students across all districts. 10 out of 21 districts had scored below 60% for Class 3 and 13 out of 21 districts scored below 60% for Class 4.
- Three districts need immediate attention of grade-level competencies of Class 3: Rohtak, Palwal and Fatehabad.
- Two districts need immediate attention of grade-level competencies of Class 3: Palwal and Fatehabad.

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