Impact Study

In an attempt to gauge the effectiveness of its MathLab initiative, which was developed to help students explore the subject of mathematics through the use of colour, touch and sound, NIIT nguru recently collaborated with one of the big four companies to conduct an impact study. 184 schools from 11 Indian states participated in the study, which covered principals, teachers and students from classes III to X, and which addressed both the quantitative as well as qualitative impact on the performance of students who learnt through MathLab.

The quantitative findings of the research reveal that:

- The share of class X students who secured grade A after the implementations of the Math-Lab initiative in their schools increased from 38% to 46%
- The proficiency level in maths among students of classes IX and X was higher than those who did not study through the MathLab initiative. The proportion of students with highest level of proficiency in Band 7 was an average 10% & 20% higher respectively in these classes.
- MathLab students perform better than control group (students who did not have access to Mathlab) across six topics - number, measurement, algebra, geometry, data and chance

The qualitative findings are as follows:

- 70% students showed increased interest in maths

- Respondents reported a better understanding of concepts and learning levels
- 95% principals and 96% teachers felt that there was significant to moderate improvement in student achievement in math skills
- Both teachers and principals had positive responses on teacher effectiveness and efficiency

MathLab promotes learning through applied reasoning and encourages students to come up with solutions to proposed problems, observe certain phenomenon, prove or disprove hypothesis through various hands-on activities and work in groups to discover concepts collaboratively.

School that partake in this initiative are provided with the learning solution that includes a range of manipulatives to support 660 activities, worksheet generator for primary classes, digital content, assessment engine and other such tools to support the teaching learning process. Additionally, the ambience and the required hardware is set-up to support the methodology. Furthermore, teachers are trained on the methodology and the usage of the solution.