

## Design and Development of a Study Table for Children of Age Group 3 to 12 Years



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**Abstract:**

A study table is one of the most important furniture required in a home. Comfortable and proper furniture is necessary to ensure that children can study for long hours without any discomfort and distraction. Although there are several pieces of furniture required in a study room, tables and chairs are the foremost among them. Storage shelves for books, colour pencils, bags are also necessary but it is important to choose an appropriate study table for convenience and comfort.

In this project, a study has been carried out for collecting data about study table for 3 to 12 years children. It was carried out by adopting methodologies like literature review, product study and market study. Trend study was also carried out to understand the trends in relation with time. User study was conducted to understand the needs and aspirations of customers. Quality Function Deployment (QFD) and Product Design Specification (PDS) were generated based on customer requirements. The concepts were also generated as per the research methodology.

The survey revealed that more children's looks forward to have comfort when they spend time at the study table. To motivate children the table has been designed in various geometrical designs and has different forms giving an aesthetic look. The concepts were designed based on the findings and one has been chosen by weighted ranking method for the final design. Digital modelling of the final concept was carried out CATIA V5 and rendered in Keyshot. A 1:1 working model was done for design validation. User validation was carried out with the user group and feedback was positive and satisfactory.



**Various concepts of study table for children**



**Final concept**



**Final working model**