



What is Autism Spectrum Disorder?

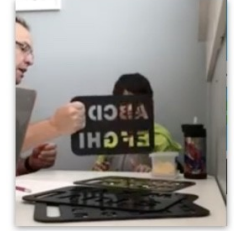
About 1 percent of the world population has Autism Spectrum Disorder and in the United States, it is estimated to be about 1 in 68 births. Currently, more than 3.5 million Americans live with autism.

Autism, or Autism Spectrum Disorder, refers to a range of conditions characterized by challenges with social skills, repetitive behaviors, speech and nonverbal communication, as well as by unique strengths and differences. An example of a core symptom is in the area of "Verbal and Nonverbal Communication." To dive deeper, as many as 40% of people with autism never speak and go through problems during the conversation.

How Letterboard (Rapid Prompting Method) Helps Autism

Initially, Rapid Prompting Method, or RPM, was developed by Soma Mukhopadhyay, an Indian mother who wanted to teach her non-verbal son, Tito, who has autism, to express himself and expand his mind. By using this method, Soma was able to teach Tito how to read, write and type. The main objective of RPM is help "verbal and written expression."

The process of RPM is quite simple: a teacher gives a short lesson on a topic, ask a question and then elicits a response using verbal, auditory, or visual prompts. The child will answer based on the teacher's question by spelling out the letters written on the letterboard. RPM, by using the letterboard has been proven to have positive effect on children with Autism.



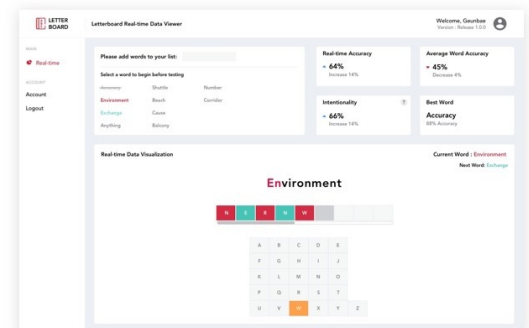
Existing Letterboard

Reinventing the Interactive Letterboard with Web Interface to Show Real-time Data



How it works

- 1 Teacher / Clinicians inputs words into the list using the web interface
- 2 Click on the word created in the list view to begin testing
- 3 The selected word will show up on the screen and wait feedback
- 4 The child answers the question by touching the interactive letterboard
- 5 The touched letters will be sent to the web interface
- 6 Correct letters will show "Green" and incorrect will show "red"
- 7 In real-time, the touched letters will be shown in "orange"
- 8 When the word is finished being spelled out, another word is clicked
- 9 Repeat for all the words in the list



Fully Functioning Web Interface That Shows Real-time Data