

"Leveraging Technology to Meet the Growing Demand for Autism Services"

Jamie Pagliaro

Co-Creator & EVP of Rethink Autism, Inc.



The Current Stats...



- Autism = 1 in 110 (2009)
- ✓ ~ 730,000 children from 0-21 in U.S. (2010)
- ✓ >70% increase from prior estimate in 2002
- ✓ 35,000 newly diagnosed cases each year



NRC The National Research Council

- United States Dept. of Ed
- Convened experts
- Determined best practices in education

*For more information see Educating Children with Autism (2001)



NRC The National Research Council

Findings & Recommendations:

- ✓ Begin early
- ✓ Individualize
- ✓ 25 hours of instruction
- Repeated opportunities to learn
- Low student /teacher ratios
- ✓ On-going measurement
- Family involvement



The National Research Council

Curriculum Areas:

NRC

- Functional communication
- Social instruction
- Play and leisure
- Cognitive and academic skills
- Challenging behavior
- Generalization and maintenance



National Autism Center

- Expert panel
- Comprehensive analysis of autism treatments
- National Standards Report findings:
 - 1. Established treatments
 - 2. Emerging treatments
 - 3. Unestablished treatments



National Autism Center

Established treatments – beneficial outcomes

- 11 treatments identified
- Majority developed in the behavioral literature (e.g., Applied Behavior Analysis)
- **Examples:**
 - Comprehensive behavioral treatment
 - Joint attention intervention
 - Antecedent interventions





The Challenges faced by Schools & Service Providers...

- 1. How to standardize the delivery of research-based educational services for all children with autism?
- 2. How to provide training & support across multiple staff and geographic locations?
- **3.** How to cost-effectively manage the increased demand for autism services?



Who We Are...

Mission

To make research-based educational treatment tools **accessible**, **affordable** and **easy-to-use** for parents and professionals.



Scientific Advisory Board

Bridget Taylor, Psy.D., BCBA-D, Chair

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Professor, Auburn University

Nicolette Bainbridge Brigham, Ph.D.

Director at TRIAD, Vanderbilt University



Web-based Educational Treatment Platform

- Parents/Individuals
 - ✓ Nationwide
 - ✓ Worldwide 26 countries
- Professionals
 - ✓ 100's of school districts nationwide
 - Health Net behavioral health subsidiary (MHN)
 - Department of Defense military base schools worldwide
 - Medicaid coverage through waiver program in two states



Web-based Educational Treatment Platform

- Key Components
 - Comprehensive curriculum
 - Individualized assessment tool
 - ✓ Staff & parent training modules
 - ✓ Data tracking & progress reporting
 - Ongoing professional support



- 1200+ video-based ABA exercises
- Research-based WITHOUT the jargon
- Featuring children with autism

Provides the **TOOLS** to teach!



- Early intervention through high school
- Covers the full spectrum
- Benefits children with other disabilities

Based on **INDIVIDUALIZED** needs!







★ WINNER of the 2011 Education Innovation Summit

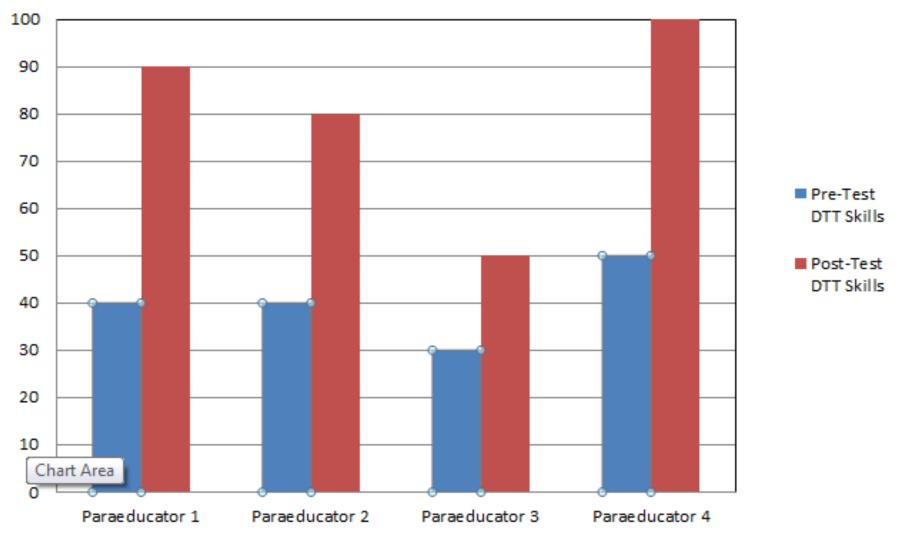
Best in Class Curriculum Award



WINNER of the 2011 Codie Award
 Best Instructional Solution for
 Special Needs Students

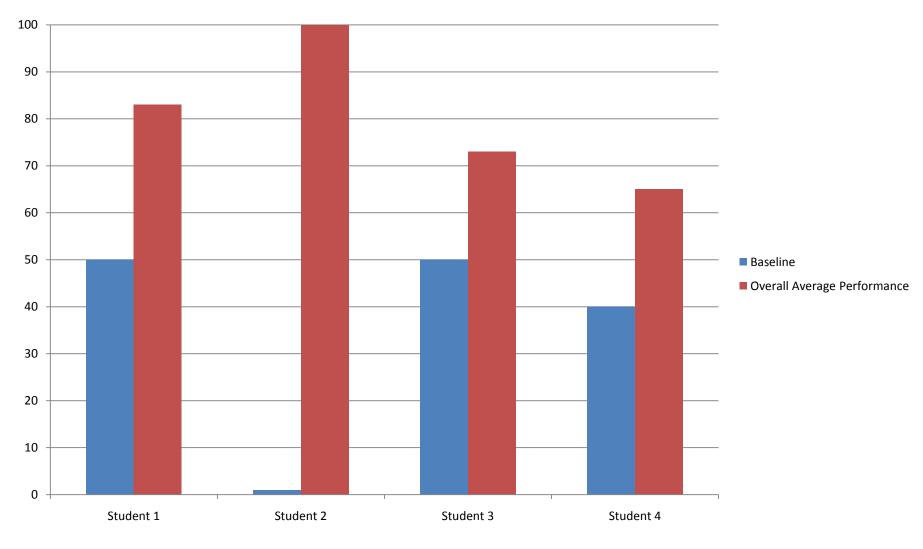


Performance Generalization



(Cardinal & Jenson, 2011)

Student Skill Acquisition



(Cardinal & Jenson, 2011)



Paraprofessional Feedback

"I noticed something different every time I watched it. It helped me change my teaching."

"Once I was trained through video, **I saw a noticeable change**. I liked the positive reinforcement, and responses that would help teach."

"It was very helpful to me to have the video modeling training. I was able to focus on what the best approach was in helping these kids."

"If everyone could have some of the video modeling training it would greatly benefit our students."

"I like that it's visual. I'm a visual learner."

(Cardinal & Jenson, 2011)



Here's how it works...

1. Assess: Brief Skills Checklist

autism "

0000

Log out My Account

Hello, Mario

Assessment for Sam

rethink

Assessment

Please answer the following questions as accurately as possible to build your customized curriculum.

			Hardly Ever	Sometimes	Frequently
\bigcirc	1.	Does your child match identical objects and pictures?	0	0	•
	2.	Does your child remain seated in a chair when asked?	0	•	0
	3.	Does your child use words, pictures, or any other kind of communication to make requests?	0	•	0
	4.	Does your child imitate simple body movements, such as clapping hands, and actions with objects, such as putting a block in a bucket?	۲	0	0
	5.	Does your child engage in age-appropriate play activities on his own for a period of time?	0	•	0
	6.	Does your child make eye contact when his name is called, and respond to the instruction, "Look at me"?	0	•	0
	7.	Does your child follow simple instructions such as "clap your hands" and identify common objects?	0	0	•
	8.	Does your child wait patiently when asked?	۲	0	0
	9.	Does your child wait patiently for something he can't have right away, like a favorite toy, food, or attention?	۲	0	0
	10.	Does your child imitate sounds and words?	0	•	0
			ħ.		

Save your child's information and complete assessment later



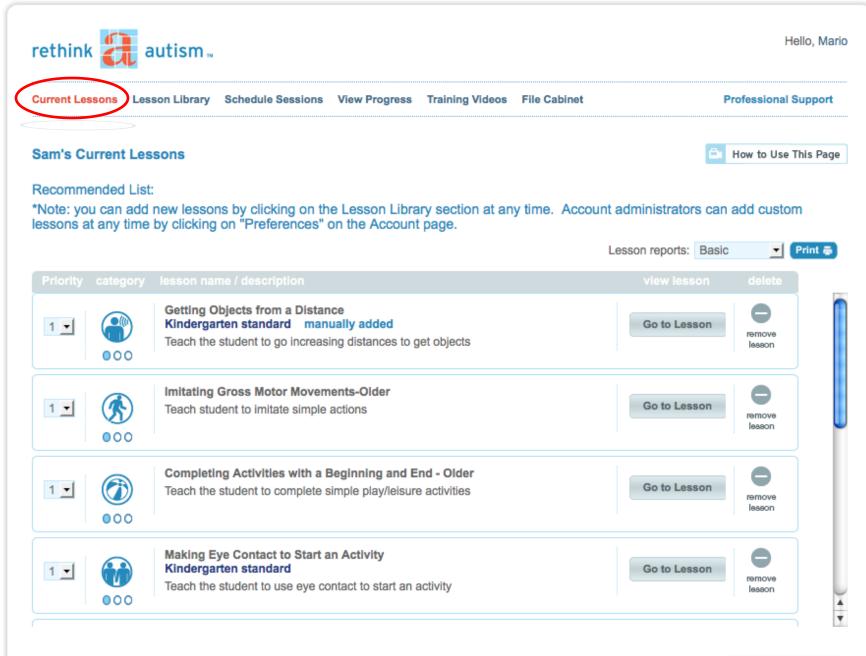
Continue to the next section of Sam's Assessment

Continue



Here's how it works...

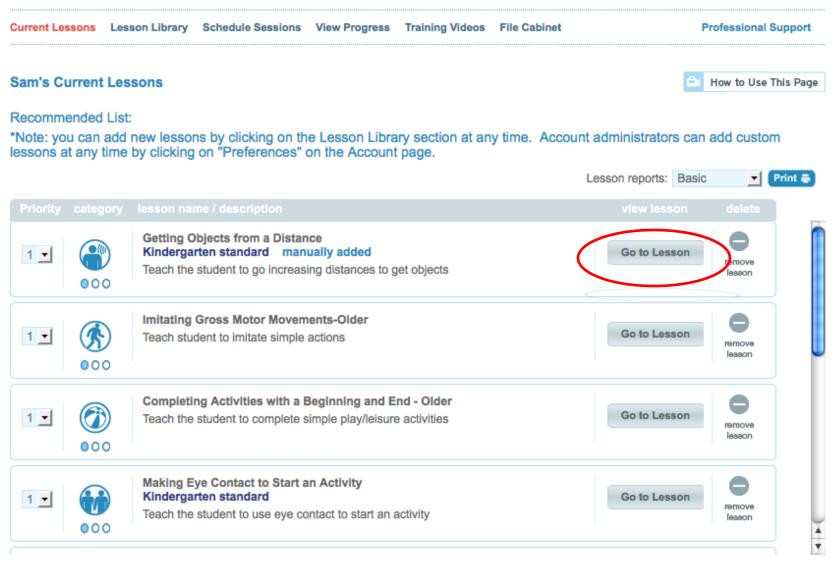
Assess: Brief Skills Checklist
 Plan: Recommended Lessons



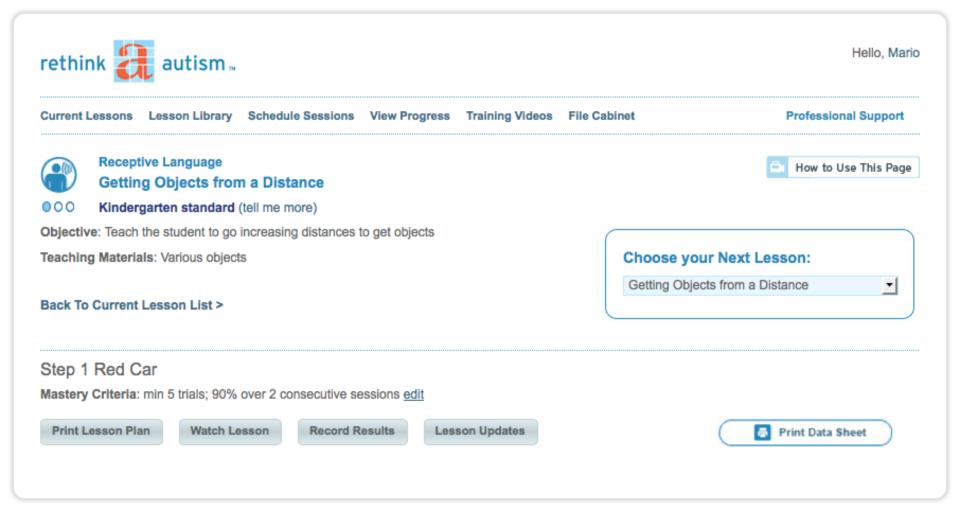
Show Recommended Lessons

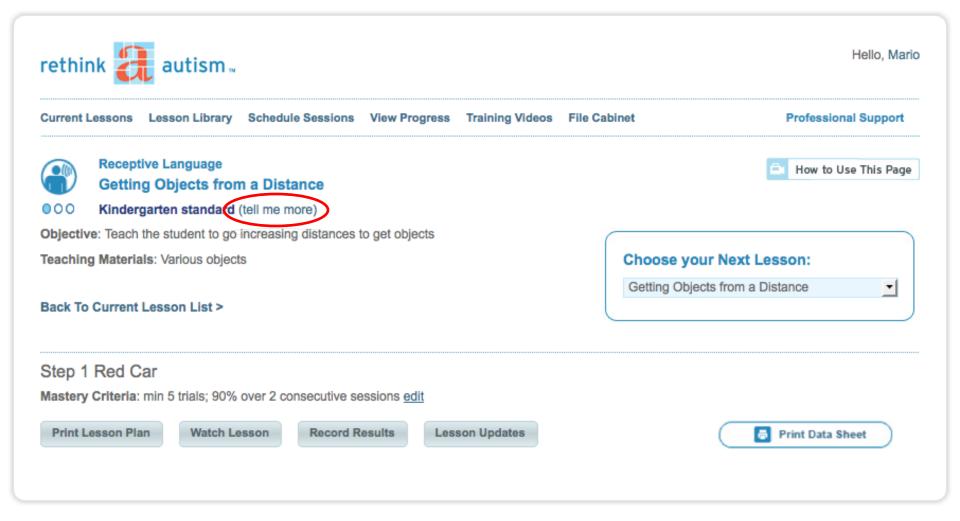
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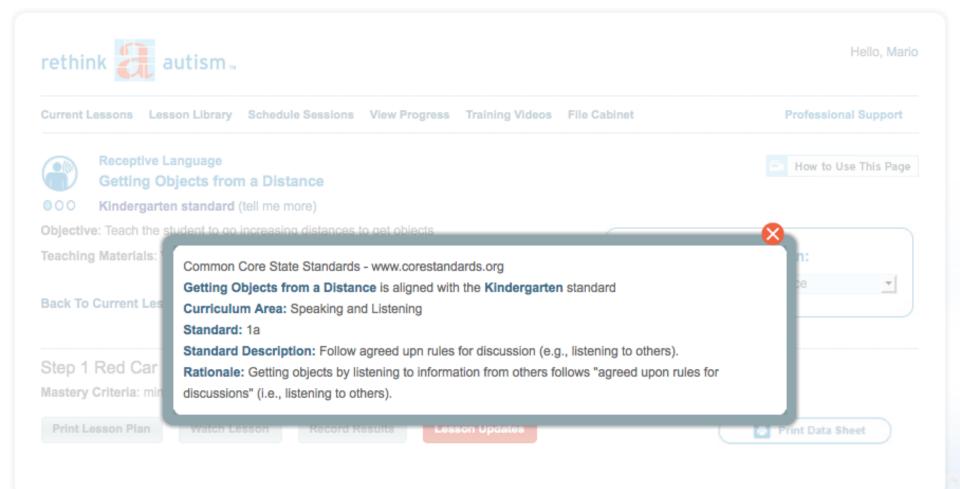


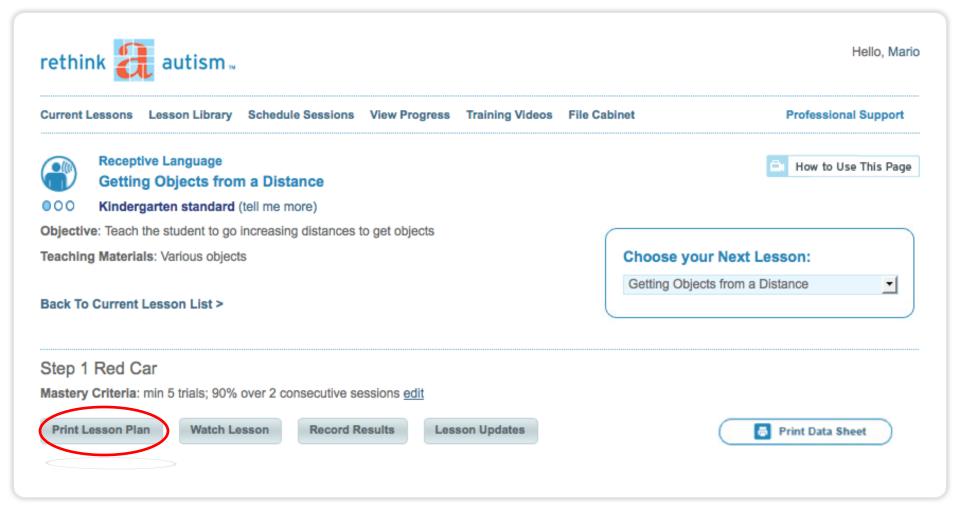


Search for Lessons













Getting Objects from a Distance

Objective

Teach the student to go increasing distances to get objects.

Supplies

Various objects

Teaching Steps

- Step 1: Teach the student to get a variety of objects that are next to him.
- Step 2: Teach the student to get a variety of objects from three feet away.
- Step 3: Continue to increase the distance the student must travel to get objects.

Next Steps

Teach the student each step in the list of Sample Skills to Teach.

Generalization

- While building with blocks, have the student get blocks placed at various distances from the activity.
- At school, ask the student to get a book from the shelf for story time.
- Have another person ask the student to get an object from a distance.

Exercise

- 1. Sit or stand with the student at a table or in a play area.
- 2. Give the instruction, "Go get the (object)."
- 3. To help the student respond correctly, prompt by guiding the student to get the object and to bring it back to you.
- 4. When the student responds correctly, provide verbal praise (e.g., "Good job! You got the book!"), and offer a reward such as a toy, snack, or token. In addition, play with the object with the student (e.g., read the book to him).

- 5. Gradually remove prompts until the student is able to respond independently (i.e., without your help).
- 6. Provide more/better rewards when the student responds correctly with less guidance, and the best rewards when the student responds correctly without guidance.
- 7. Gradually increase the distance between the starting location and the object until the student is able to get objects from anywhere in the room, and from another room.

Error correction

While saying, "This is getting (object)," physically guide the student to get the object.
Point toward the item.

Other Prompting Procedures

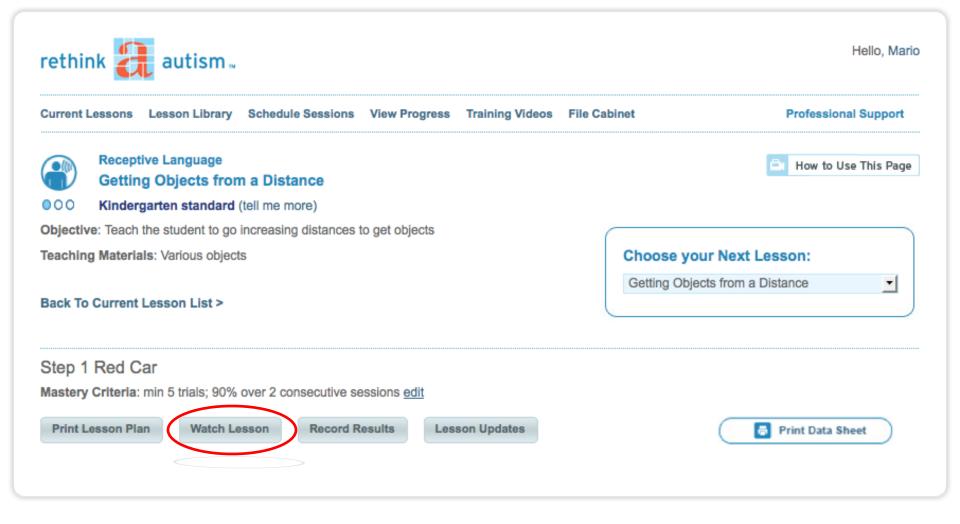
- Initially position the student close to the objects; then fade the distance across trials.
- Use a photo of the object that the student can carry when getting the object.

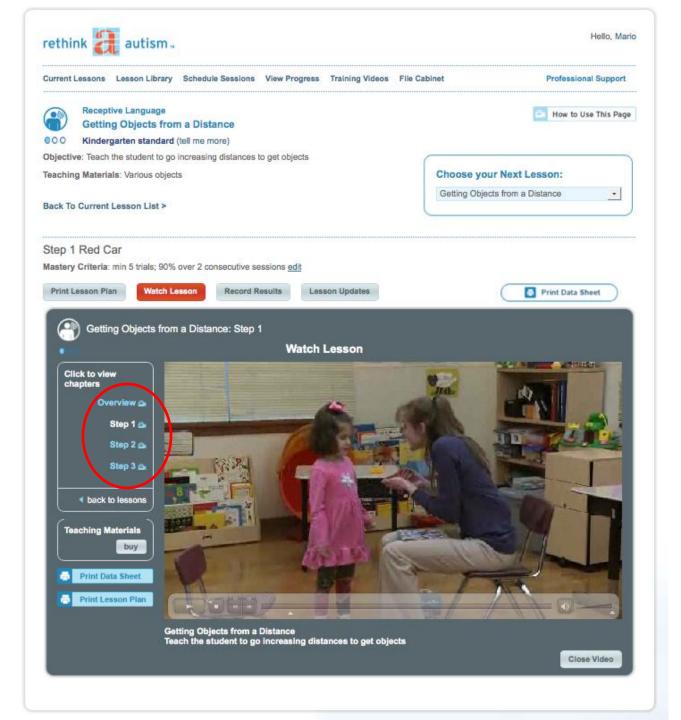
Troubleshooting

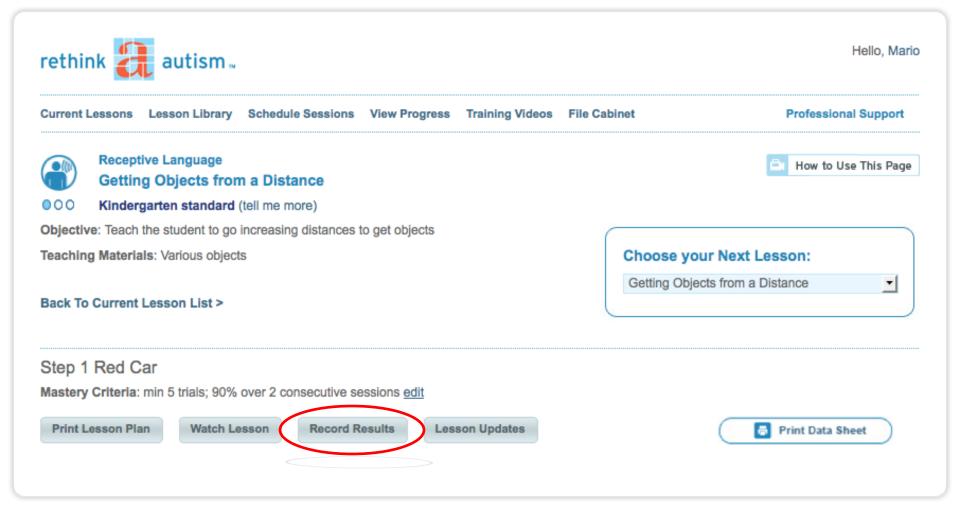
- Problem: At longer distances, the student forgets what he is looking for.
- Solution: After you instruct the student to get the object, prompt him to repeat the item's name (e.g., "What are you going to get?").
- Problem: The student engages in inappropriate behavior (e.g., hand flapping) while going toward the object.
- Solution: Return the student to the original location and repeat the instruction, providing prompts to interrupt the behavior, if necessary, until the student repeats the trial without assistance.

Helpful Hints

- Have the student get objects that are useful in
- the natural context (e.g., something you need to
- complete a task, such as a crayon). After the student



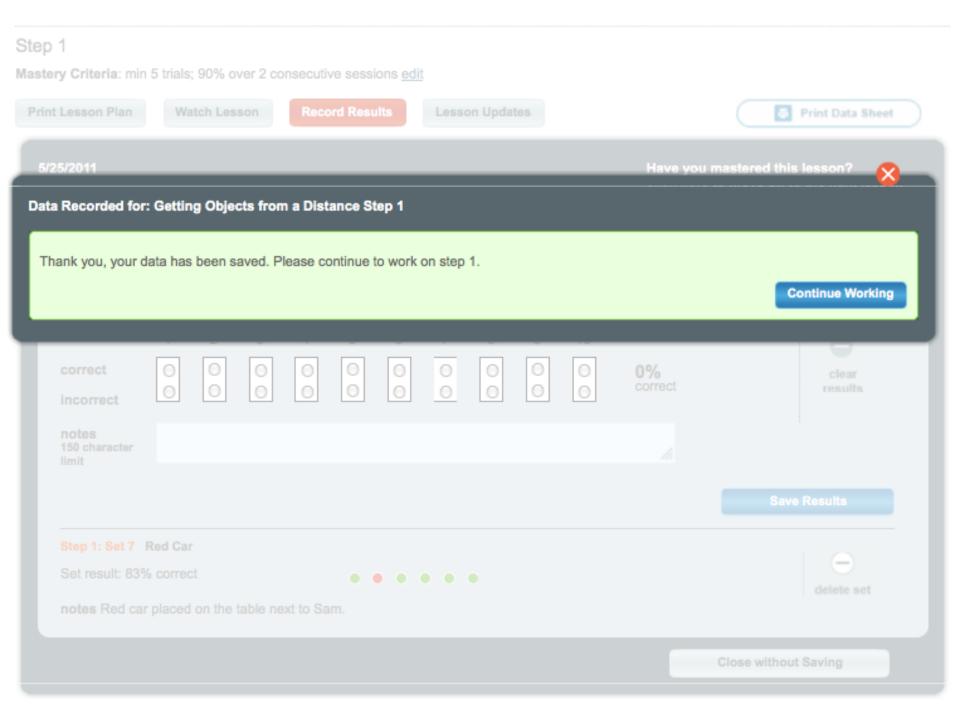


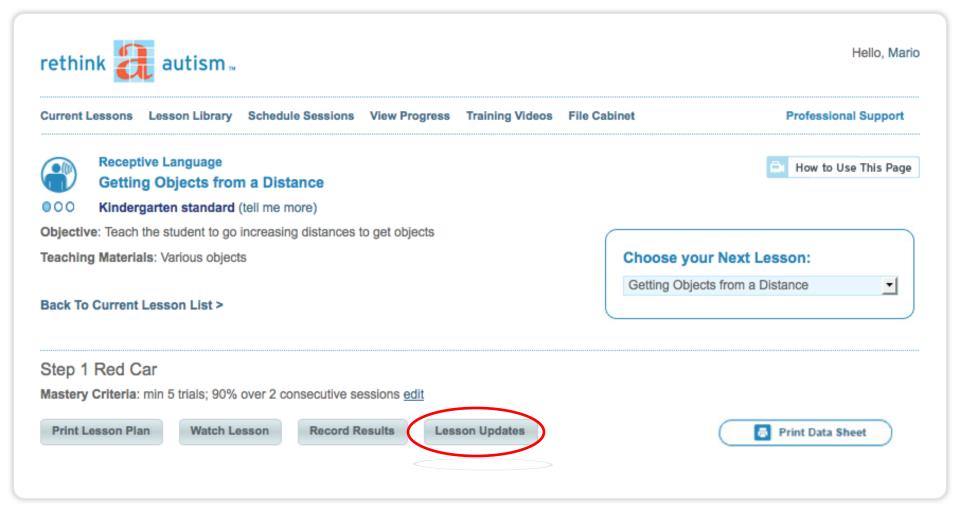


Step 1 Red Car

Mastery Criteria: min 5 trials; 90% over 2 consecutive sessions edit

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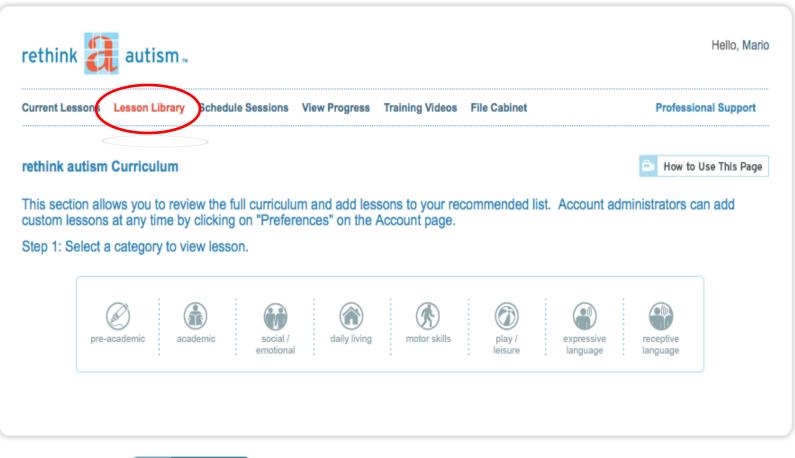


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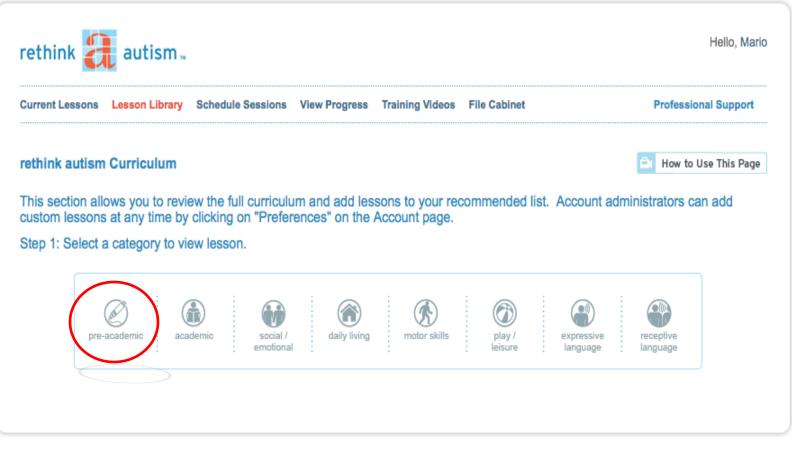
Here's how it works...

- 1. Assess: Brief Skills Checklist
- 2. Plan: Recommended Lessons
- 3. Modify: Manage Curriculum



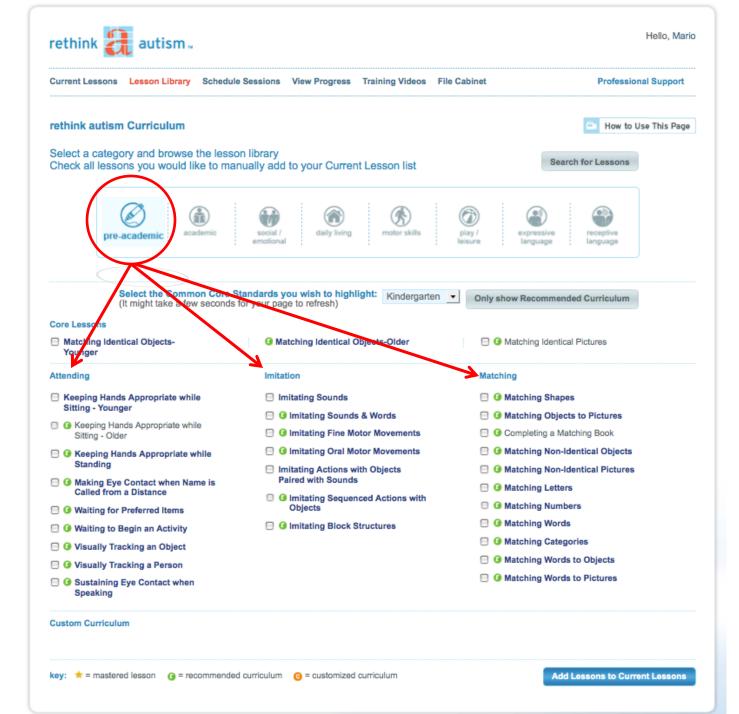


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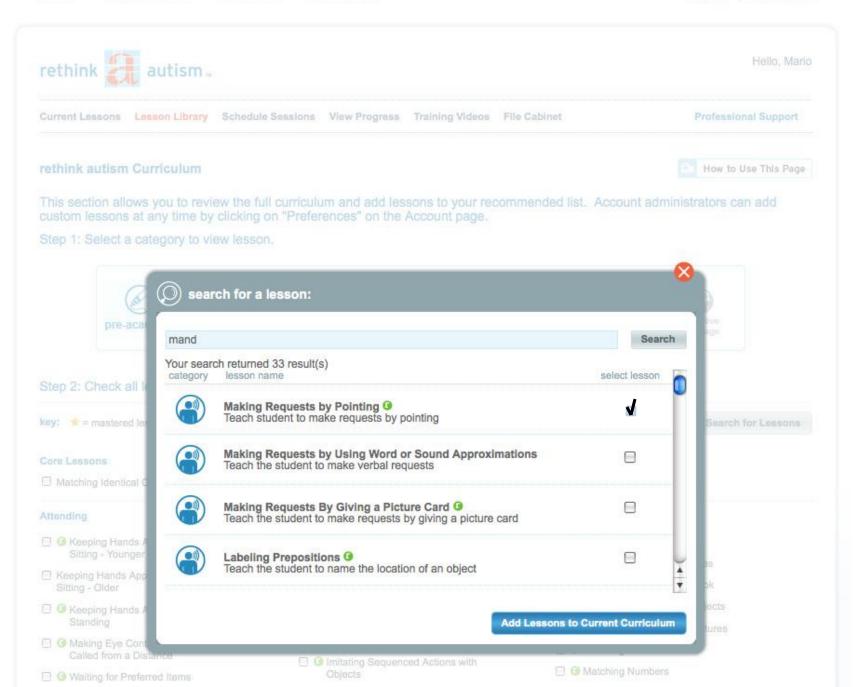




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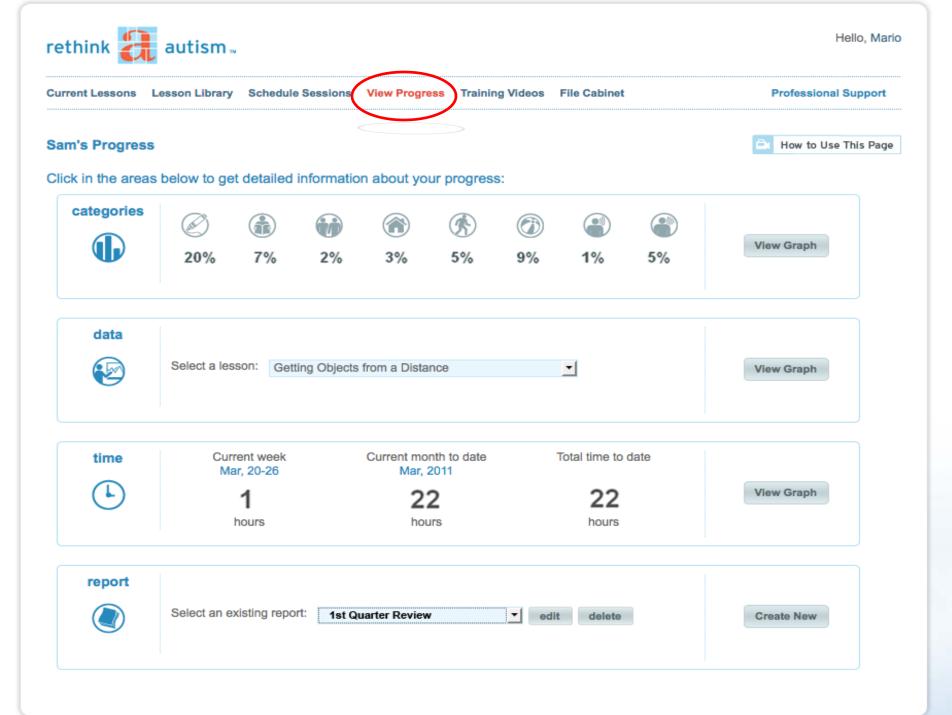
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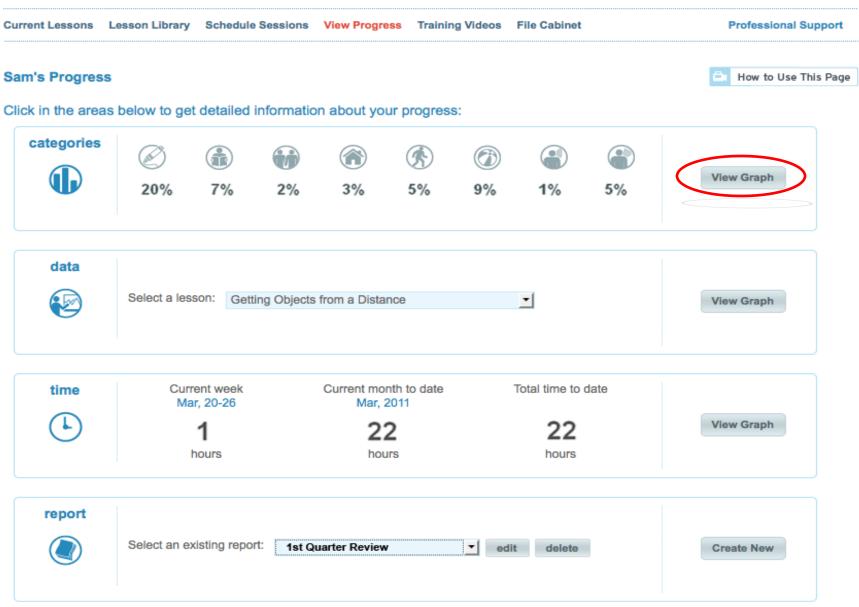


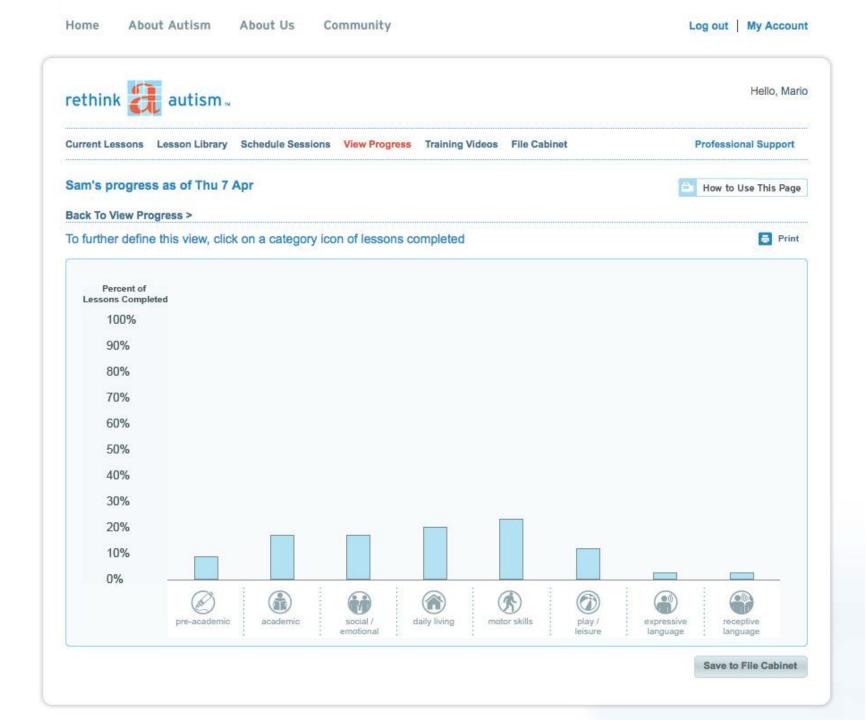
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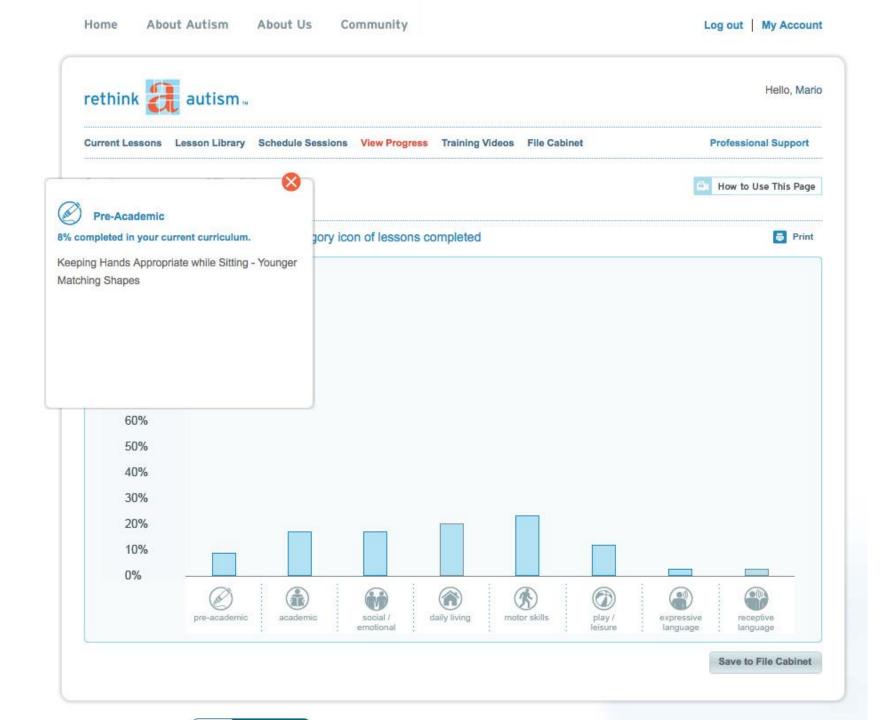
- 1. Assess: Brief Skills Checklist
- 2. Plan: Recommended Lessons
- **3.** Modify: *Manage Curriculum*
- 4. Data: View Progress & Reports



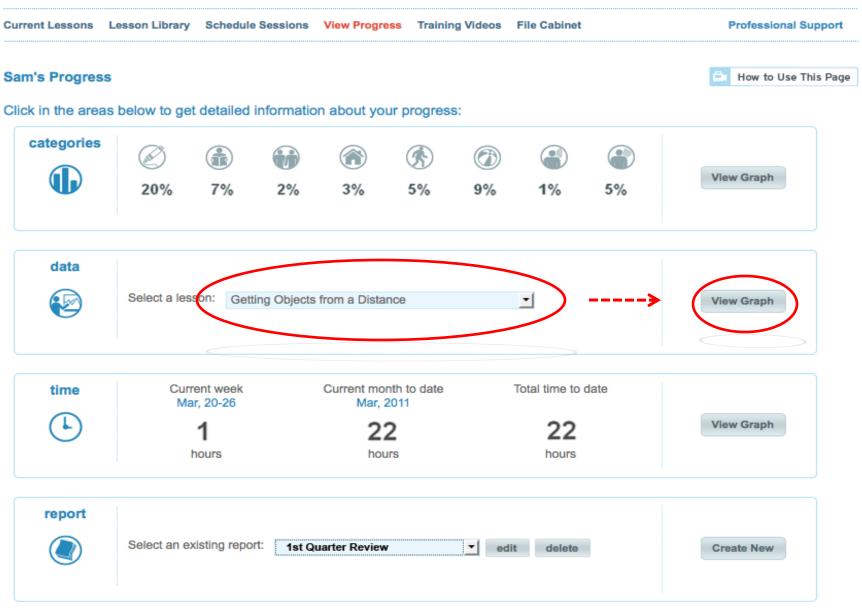






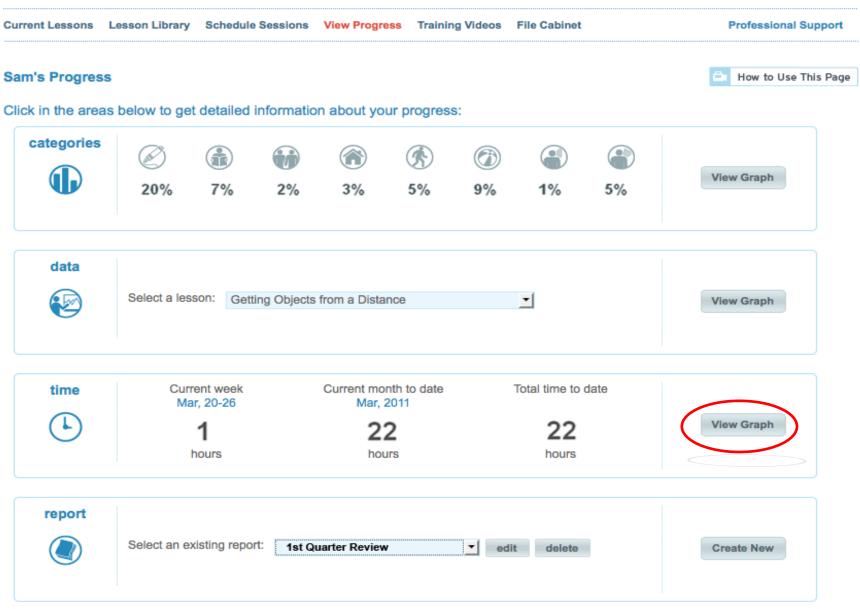


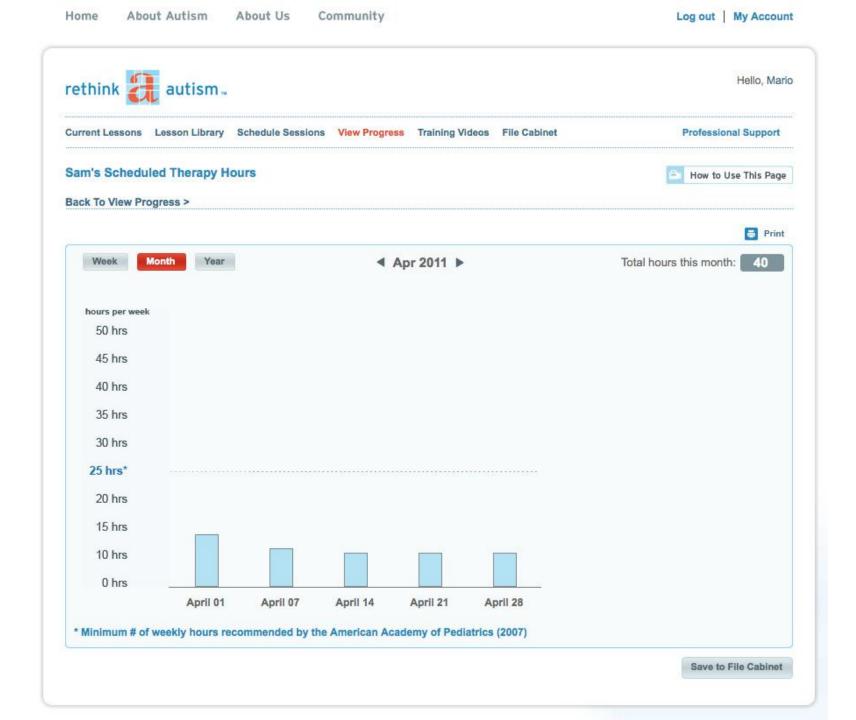


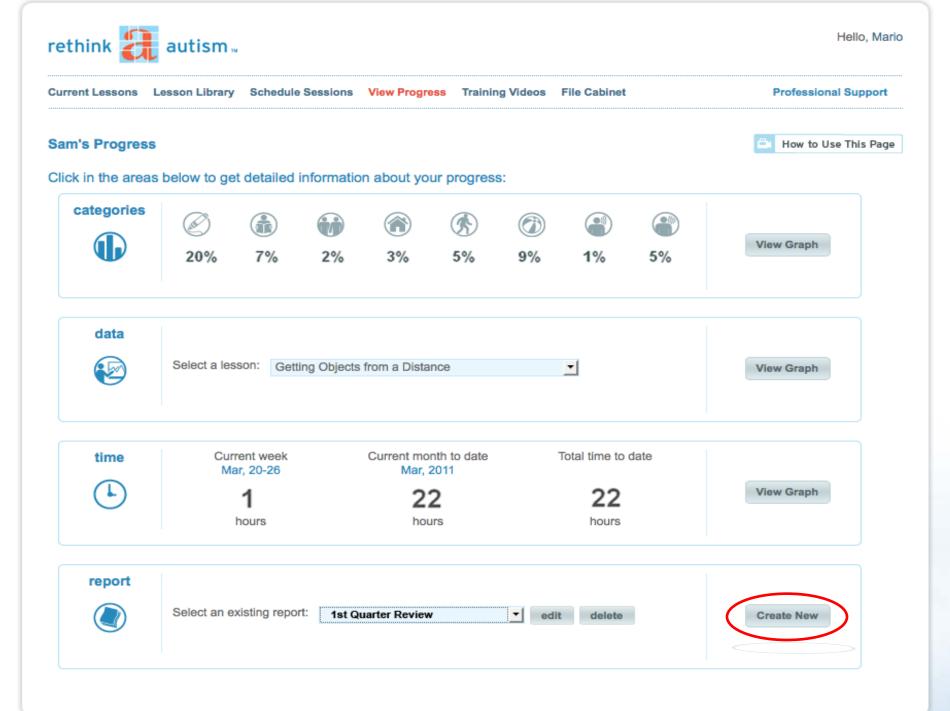


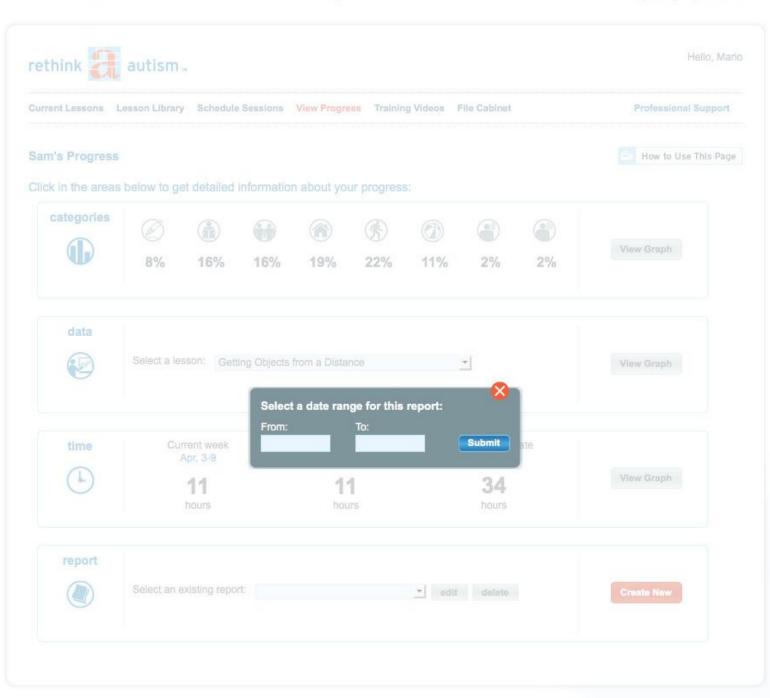
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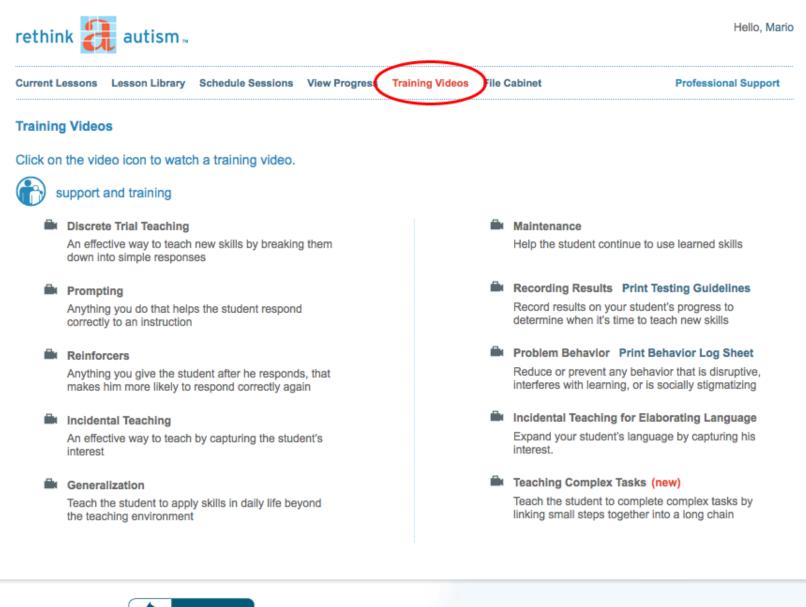


Jackie's Progress Report	🚯 categorie	s 🚱 data 🕒 time	How to Use This Page
From: To: 02/01/2010 02/19/2010			
Report Name: Bi-Weekly Progress Report		Report Date: 2/19/2010 12:00:00 AM	
Gross Motor			
Lesson Name: Kicking a Ball		Responses Mastered:	10 6
Objective: Teach the student to kick a ball		Kicking ball to other people up to Kicking ball into a goal from up to	
Mastery Criteria:			
Student will kick into a goal and to another person fr away with 90% accuracy for 2 consecutive days ac teachers.			practice during weekly soccer games icking the ball to different people up king on expanding the distance
Lesson Start Date: 01/19/2010			
Steps Mastered During Date Range: 2 Current Step: 3 Current Step Start Date: 02/09/2010			
Mean Performance (%) on Current Step: 75%			



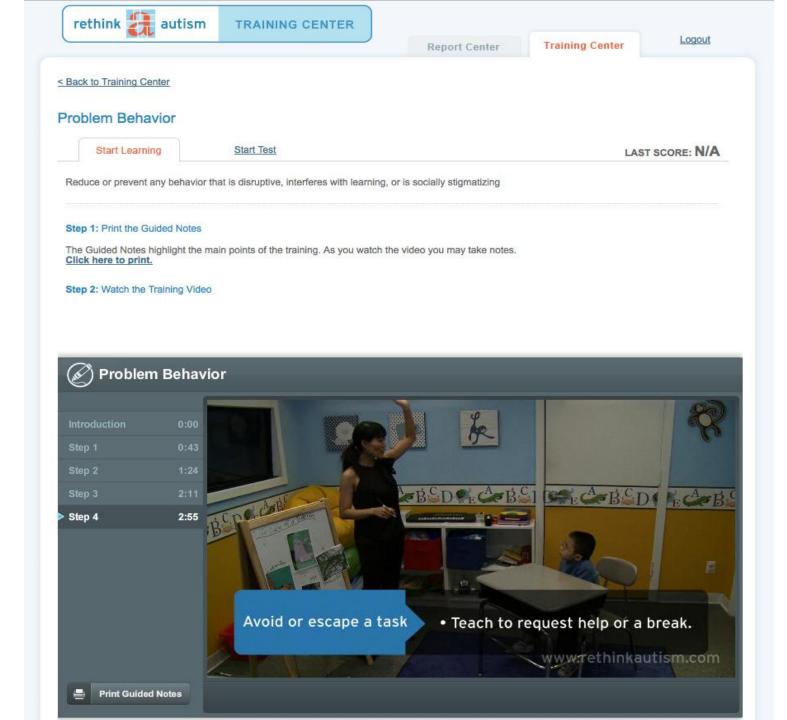
Here's how it works...

- 1. Assess: Brief Skills Checklist
- 2. Plan: Recommended Lessons
- **3.** Modify: *Manage Curriculum*
- 4. Data: Progress Tracking & Reporting
- **5.** Train: *Principles of ABA eLearning Series*



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BBB





Problem Behavior

Test Questions:

00000000000

27:12

What is a possible reason for the problem behavior seen in the following video?

- He wants to escape the current activity
- O He wants your attention
- He is trying to get access to the reward he is working for
- O He enjoys the behavior





Finish



"It is a standard curriculum that can be easily tailored to individual students... By having Rethink, I am able to focus my energy on actually teaching my students, as opposed to developing the lessons/curriculum...

...It creates a **standard method of measurement and data presentation**... Having a centralized method is **great for teacher collaboration** as well as **beneficial for parents**."

Ms. Jessica Ghai, Teacher Cambridge Public Schools (MA)



"We are thrilled with the Rethink Autism program. Who would have thought that our **paraprofessionals** would **have improved so much** in their implementation of the programs **from watching your instructors and the videos**! The site is so **user friendly** I have not had any technical assistance issues...

...Although we are **in our most dismal budget** time in education, I can't imagine us not spending the dollars necessary to **continue with Rethink Autism**. Your **support to our district has been awesome**!"

Ms. Laura McGill, Program Specialist School District of Indian River County (FL)



"Rethink Autism is an innovative program that has helped us put the essential **components of an evidence-based program** for individuals with autism at the fingertips of educators across the state...

...The Rethink Autism program reinforces the teaching components we cover during our trainings. It's been **tremendously beneficial** to provide this resource to educators who are committed to providing **quality educational services** to individuals with autism spectrum disorders."

Annette Wragge, State Coordinator The Nebraska ASD Network



"[Our team] has had the opportunity to work with Rethink Autism through trial memberships. We are both convinced that it can be a big help to DDESS/DODEA in our efforts to **improve the quality of our ABA-based services** to students with autism...

...This product is simply excellent and unique to anything I've seen on the market."

Mr. Terry Dutton, Instructional Systems Specialist - ASD Department of Defense Educational Agency

*From review submitted to David Cantrell, Chief of Special Education and Student Services Branch for DoDEA – shared with permission from Mr. Dutton.



"No other program that we have investigated, in print or on line, has offered an intervention option that within a day of initiating the service has a plan to implement and a promise for a path to continue following. It allows for a true team effort to assess the best fit for the program, the skills of the child and the environment that supports the child...

...The video gives a fabulous and consistent training tool to ensure that all staff get to view the program in action."

Suzanne Sterrett, Program Coordinator Child Development Center (Montana Medicaid Provider)



"This website is a pretty amazing tool to get access to ABA therapies without all of the usual cost. My experience with it has been great, because the website really helps devise an individual plan for each child. As you pick goals through the website there is an ability to track data, follow progress, make schedules, and communicate with other members of a child's team."

Abbey Hood, Director Easter Seals Metropolitan Chicago



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