



**Design
4
Autism
[D4A]**

**Education
Inequality Ends
Today!**

Nathan Foo

What is D4A?

The dream is that Design 4 Autism will become a global online platform for children with Autism Spectrum Disorder to learn whatever subject or activity they want to learn, and for mentors to guide them with research-backed visual curricula. This curricula will be adaptable and the visual supports should allow children with ASD to flourish in educational activities by enabling communication directly or by creating building blocks in which a student may learn other more advanced means of learning or communicating.

Design 4 Autism was born out of the idea that children with Autism Spectrum Disorder (ASD) have learning superpowers that excel beyond the standard K-12 curriculum. Design 4 Autism's vision is to help close the gap of educational inequality between neurodivergent and typical students while also inspiring the next generation of change-makers.

Our Vision



Who is D4A For?



- **Children with Autism Spectrum Disorder (ASD)**
- **School Instructors**
- **Parents of Children with ASD**
- **Athletic Coaches**



Before the COVID-19 pandemic, I was tutoring and coaching children with ASD. I found that these children often have difficulty understanding and following verbal instructions; however, they respond almost perfectly when given the chance to visualize instructions. This finding is supported by current research, as Hayes et al. (2010) found that visual supports help diminish many of the challenges of ASD. But then, just as these children were making real progress, the COVID-19 pandemic hit.

Without in-person instruction, these children had their superpowers taken away from them, as they were no longer able to properly visualize the instructions given to them over Zoom. To solve this, D4A plans on adjusting ASD-centric visual curricula for online learning. This will allow instructors to teach their courses in any place, at any time.



**How is
D4A Used?**



01

Questionnaire

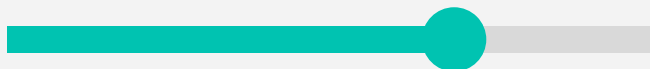
D4A wants to build a diverse collection of visual curricula. Using the questionnaire, D4A will design a personalized visual curriculum for any subject.



Upload your current curriculum

Upload PDF

75%



Visuals

How visual do you want your new curriculum to be?

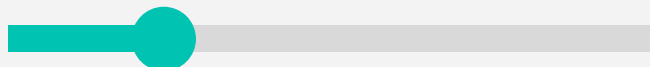
50%



Exercises

What percent of the content do you want to contain solvable exercises?

6 Years Old



Age

On average, what age will your students be?





02

Video Library

The D4A video library will be free and accessible to anyone with an account. You can use the search feature to find an existing curriculum. Additionally, you will get a notification if you filled out a questionnaire and your personalized curriculum has been created.

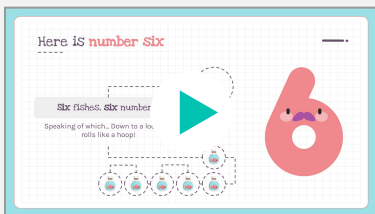


Let's Learn How to Count Together!



Introduction

Welcome to Math!



Lecture

This video will introduce us to all of the different single-digit numbers.



Exercises

Here are some exercises to practice with.



Let's Get In Shape!

Introduction to Yoga Poses



Side Plank



Warrior



Side Angle

Beginner Poses

This video will get you started.

Advanced Poses



Advanced Poses

This video is for those who have been practicing.



A graphic of a spiral-bound notebook with a white page and a red cover. The spiral binding is at the top. On the left side, there are two horizontal tabs: a yellow one on top and a pink one below it. The page contains the number '03' in a large font, surrounded by a green circular arrow graphic. Below this is the word 'Metrics' in a bold red font, followed by a paragraph of text.

03

Metrics

On D4A, you can assign your students assignments. When assigned, you can track your students' live progress on these assignments and also get a progress report on how they are doing on the exercises.



Metrics for “Introduction to Algebra”



	% Watched	Exercises Attempted	# Correct
Video 1	60%	5/6	2/6
Video 2	100%	8/8	6/8
Video 3	0%	0/6	0/6