Design Case Study Edia Learning

Schools are struggling to recover from COVID.

The National Assessment of Educational Progress (NAEP) reported that 2022 was the biggest drop in US test scores in 50 years. At Lee County, a school district we work with, math scores dropped by -44%.

When schools shut down for COVID, students missed an entire year of math. This is problematic because math can't be learned out of order: you need to learn how to add and subtract before you can solve an equation.

As a result, American students are struggling in math, and schools can't get more than 1-2% growth in test scores.

Edia addresses this with a simple promise: We improve your math scores, or you get a full refund.

How does Edia guarantee results?

Instant feedback

Al coaches students in real-time. It can catch mistakes and answer questions in natural language, just like a tutor would. Students get the benefit of 1:1 instruction at a fraction of the cost.

×			
	To simplify a math problem means to make it	Find the product and simplify. $\left(-a^4 ight)\left(2a^4 ight)$	
	easier to solve or understand by reducing it to its most basic form. In this problem, find the product of these two terms.	Show your work here	
	Ask a question		
		Enter your answer here	Check

Real-time data

Teachers don't have the time to grade homework every day. As a result, teachers don't know that a student is struggling until the test a month later. Edia grades automatically, so teachers can fix problems as they happen.

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2 Combine like terms with distribution (level 2)		
3 Solve two-step linear equations with integers using th	e distributive p	property
4 Identify infinite solutions		
5 Complete the equation		
6 Solve three-step linear equations with integers using t	he distributive	property
7 Identify no solutions		
8 Solve three-step linear equations with integers using t	he distributive	property
9 Identify infinite solutions		
10 Complete the equation		
540000 - Algebra I - Period 1 - 007 MHeck		
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Amanda Alexander	90%	Sep 8 11:07
Angel Brandstadt	40%	Sep 8 9:27a
Lucia Choynowska	90%	Sep 8 9:30a
Sadie Dahl	40%	Sep 8 9:41a
Regina Deardurff	50%	Sep 8 9:40a
Landon Decourcy	90%	Sep 9 8:49a
Alonso Drago	20%	Sep 8 9:35a
Rachel Draier	80%	Sep 8 9:23a
Bautista Dupont	90%	Sep 8 9:35a
Shana Ewing	90%	Sep 8 9:23a
Zoey Glasser	70%	Sep 8 9:34a
Matias Ishee	40%	Sep 9 2:27p
Richard Kamiyama	0%	Sep 8 9:05a
Omar McAulav	100%	Sep 8 9:19a

HAROLD KIM · DESIGN CASE STUDIES

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Visibility

Principals need to know student proficiency to allocate resources for tutors, after-school programs, or training. Before Edia, they had to check with each teacher individually. Now the data is reported automatically.

C Edia Standards - 6th Grade x +												
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Geometry	30%	100%		1009	6	120K						
Algebra II	15%					Average						
Algebra, Functions, and Data Analysis	19%	50%		509	6	60K		1.1				
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Integrated Math III	-											
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Precalculus	-	Farmwell Station Middle ~	165	53,971	319	16	34%	39%	45%	46%	+42%	
Calculus	-	Harper Park Middle ~	188	82,028	399	%	50%	63%	67%	68%	+61%	
AP Calculus AB	-	J. Lupton Simpson Middle ~	138	9.001	8%		8%	8%	8%	8%	+6%	
AP Calculus BC	_	Mercer Middle ×	242	18.025	159	16	17%	18%	19%	19%	+15%	
AP Precalculus	_	River Bend Middle ×	362	126.001	329	6	38%	42%	44%	44%	+39%	
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It works.

None of our school districts have asked for a refund.

Hillside Public Schools in New Jersey, a school district with 9% of their students passing state assessments, saw that number rise to 17% within 6 months of piloting Edia.

Our districts (33 and counting) see +5-12% growth in proficiency within a year, compared to +1-2% in most districts in the United States.

"With Edia we're seeing data we never had before, which means we're having conversations we never had before. It's transformed how my math department operates."

JERRY PUTT, PRINCIPAL FREDERICK COUNTY PUBLIC SCHOOLS

Case Study 1: Assignments

Edia's core product is the Math Assignment creator.

It's how teachers create homework and quizzes, which is the foundation that our entire product suite is built on.

None of the original team members are teachers.

So we were deeply dependent on constant feedback.

Every week, we cold emailed 100s of teachers to try Edia, and followed up with churned users to ask them how we could improve the Assignment Creator.



☆ 🕂 🗗 Student preview Save as draft Title Untitled assignment Assign to No classes selected Select Settings ^ Accept late work until <u>Dec 31, 2025</u> for <u>full credit</u> \bigcirc Allow two retries of entire assignment \bigcirc Set time limit for <u>60 min</u> Enable <u>scientific</u> calculator

Anti-cheating features 🗸



The usage logs don't always tell the full story.

When we looked at dropoffs in our logs, this "Add question" screen was consistently an issue.

We went through an entire month of optimizations to the user flow, getting incremental gains in retention.

But when we emailed and called teachers, it turned out it was actually a content problem: we just didn't have the questions they wanted.

So Joe (CEO) started hiring content writers.



☆ f? 🗅 + Student preview Save as draft Add question × Generate with AI 🖉 🛛 Write your own **Questions by Edia Q** Search all questions **Elementary School** Pre-Algebra Middle School Algebra II Algebra I Geometry AP Precalculus Precalculus Calculus Standards > Statistics Elementary School Integers and operations 34 > Fractions and mixed numbers 44 > 12 > Decimals Measurement and data representations 26 > 26 > Introduction to geometry

Arithmetic30 >Negative numbers27 >

Middle School

Factors and multiplas



Keep our style uniform

When we started hiring a team to write our questions, we started to have inconsistencies in colors, shapes, line weights, and fonts used.

I created a content style guide for the team to unify our visual styles.

	+ Add			Answer 6 questions	
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5	Graph given standard equation		Enter your answer		Check
5	Find properties of hyperbola given equation	2.	— 1 pt +	Edit ① Dup	licate
			Which conic is the result of the	e plane intersecting the cones?	

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Q conic	>
Geometry	
Identify <mark>conics</mark> from 3D drawings	1
Identify center and radius of circles	3
Formulate standard equation of circles	2
Derive the equation of a circle from definition	4
Write equation of <mark>conics</mark> from definition	4
Apply the equation of circles	5
Apply the equation of ellipses	5
Apply the equation of hyperbolas	5
Identify properties and equations of parabolas	3
Understand the focus and directrix of parabolas	3
Connect the locus definition to the equation of a <mark>conic</mark>	5
Algebra II	
Identify properties and equations of parabolas	3
Apply the distance and midpoint formulas	2
Classify <mark>conics</mark>	6
Apply the equation of circles	5
Write equations of circles	8

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Student preview



Adding complexity only when necessary

No matter how many questions our team writes, there will always be questions that our team hasn't covered yet.

We wanted to avoid the complexity of a custom question creator, but teachers told us that they couldn't use Edia if even 1 of 10 questions were missing.

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Total points: 1							



Al made impossible problems possible

The issue with a custom question creator is that they aren't programmed by our content team to handle student inputs, and thus, cannot be graded automatically.

But when LLMs (GPT, Gemini, Claude, etc) came out in 2022, it suddenly made automated grading possible for any question.

e Edia Assignments ×	+			
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	 - 1 pt + Edit Taylor Swift is planning a series of concerts in different of New York City, tickets are sold at three different price point of the York City, tickets are sold at three different price point. VIP tickets cost \$250 each. Regular tickets cost \$120 each. Balcony tickets cost \$80 each. <i>Taylor's</i> fans are excited and many are buying multiple 2 VIP tickets, 3 regular tickets, and 5 balcony tickets. Mea bought 1 VIP ticket, 4 regular tickets, and 2 balcony ticket. Calculate Jessica's total cost. Your answer Write your answer here 	Duplicate Delete	Taylor Swift is planning a series of cities. For her concert in New York three different price points: • VIP tickets cost \$250 each. • Regular tickets cost \$120 each. • Balcony tickets cost \$80 each. <i>Taylor's</i> fans are excited and many tickets. Jessica bought 2 VIP tickets 5 balcony tickets. Meanwhile, her friticket, 4 regular tickets, and 2 balc Calculate Jessica's total cost. Calculate Jessica's total cost. Carrect answer Sample correct Standards + Add standards	concerts in different City, tickets are sold at y are buying multiple ; 3 regular tickets, and riend Alex bought 1 VII ony tickets. Open ended Open ended
Total points: 1				



Case Study 2: Differentiation

In education, "differentiation" is adapting how you teach to each student's needs.

But this is more of a theoretical ideal than actual practice. Teachers do not have the time to plan and teach 3 separate lessons, nor personalize and grade 3 different homework assignments.

But because Edia saves teachers so much time, this is now possible.

Teachers save hours

That time is spent on students who need the most help, or planning the next day's lesson.



Question

- 1 Solve two-step linear equations with integers using the distributive property
- 2 Combine like terms with distribution (level 2)
- 3 Solve two-step linear equations with integers using the distributive property
- 4 Identify infinite solutions
- 5 Complete the equation
- 6 Solve three-step linear equations with integers using the distributive property
- 7 Identify no solutions
- 8 Solve three-step linear equations with integers using the distributive property
- 9 Identify infinite solutions
- 10 Complete the equation

540000 - Algebra I - Period 1 - 007 MHeck

Student 🗘	Grade ≎	Started 🗘	Submitted 🗘
Amanda Alexander	90%	Sep 8 11:07am	Sep 8 6:10pm
Angel Brandstadt	40%	Sep 8 9:27am	Sep 10 11:59pm
Lucia Choynowska	90%	Sep 8 9:30am	Sep 8 9:45am
Sadie Dahl	40%	Sep 8 9:41am	Sep 8 10:19am
Regina Deardurff	50%	Sep 8 9:40am	Sep 10 11:59pm

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65% >	
68% >	
58% >	
75% >	
77% >	
49% >	Select a student to see their grades and responses
76% >	
52% >	
65% >	
69% >	



Students show their work

Though other math programs can auto-grade too, none of them have a way for students to show their work.

Only on Edia, teachers can see the students think through the problem.



Student 🗘	Grade 🗘	Started
Amanda Alexander	90%	Sep 8 1
Angel Brandstadt	40%	Sep 8 9
Lucia Choynowska	90%	Sep 8 9
Sadie Dahl	40%	Sep 8 9
Regina Deardurff	50%	Sep 8 9
Landon Decourcy	90%	Sep 9 8
Alonso Drago	20%	Sep 8 9
Rachel Draier	80%	Sep 8 9
Bautista Dupont	90%	Sep 8 9
Shana Ewing	90%	Sep 8 9
Zoey Glasser	70%	Sep 8 9
Matias Ishee	40%	Sep 9 2
Richard Kamiyama	0%	Sep 8 9
Omar McAulav	100%	Sep 8 9



Standards data updates daily, not every three months

Without Edia, teachers have to rely on quarterly assessments to know how their students are doing on state standards.

One school called them "post-mortem data", because by the time the data comes in, the student has been failing for weeks.

Teachers can intervene before a knowledge gap becomes a problem

A math coach in California:

"We love this graph because we can see a student in red, click to see all their assignments, and know immediately what they need help with. This would have taken hours to do in Excel."





The theoretical ideal of differentiation, realized

Edia generates targeted assignments in one click.

In this screenshot, a teacher selects three students, and assigns a review that only contains problems they need to practice.

On paper, this would have taken hours.





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←→ Switch to admin

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Case Study 3: Analytics

America has a teacher shortage. One of our partner school districts in San Diego sponsors visas for teachers from the Philippines because they can't hire enough math teachers.

Superintendents have to make strategic decisions about where to allocate the teachers they have and how to empower them. Which after-school programs need staff? Do teachers need additional training? Is the curriculum working, or does it need revisions?

The information to make those decisions requires talking to each teacher individually, but our admin dashboard makes that information more visible. This was requested by every district we partner with.

e Edia | Standards - 6th Grade 🗆 🗙 🕂 ▲ Not Secure 192.168.1.198:3000/district/standards C \leftarrow \rightarrow edia Standards Resources Schools 51% 6th Grade Math Overview Standards 45% 7th Grade Math 31% 8th Grade Math 6th Grade Math Proficiency 49% Algebra I 100% 30% Geometry 15% Algebra II Algebra, Functions, and Data 19% 50% Analysis Integrated Math I -----Integrated Math II ____ Oct Nov Dec Sep Aug Integrated Math III ____ Statistics -----School **AP Statistics** -----Brambleton Middle School 👻 Precalculus ____ Farmwell Station Middle 🗸 Calculus -----Harper Park Middle 🗸 AP Calculus AB ____ J. Lupton Simpson Middle 🗸 AP Calculus BC ____ Mercer Middle 🗸 **AP Precalculus** ____ River Bend Middle 🗸 Seneca Ridge Middle 🗸 Smart's Mill Middle 🗸 Willard Middle School ~ Academies Of Loudoun 🗸 Download data Dominion High ~

An entire district in one screen

District administrators can see the growth of their entire district in one dashboard.







Students	Answers	Mar '24	Apr '24	May '24	Jun '24	Jul '24	Total growth
280	97,035	54%	56%	59%	61%	61%	+23%
165	53,971	31%	34%	39%	45%	46%	+42%
188	82,028	39%	50%	63%	67%	68%	+61%
138	9,001	8%	8%	8%	8%	8%	+6%
242	18,025	15%	17%	18%	19%	19%	+15%
362	126,001	32%	38%	42%	44%	44%	+39%
194	7,591	9%	11%	16%	17%	17%	+16%
157	64,745	39%	44%	50%	53%	53%	+45%
203	136,071	43%	53%	63%	70%	70%	+64%
33	0						
1	0						



Don't make an Excel spreadsheet. Just filter.

To compare math scores across schools or demographics, school admins would chase down dozens of teachers to export data, then spend days merging CSV files into a massive Excel spreadsheet.

That's now just two clicks.

e Edia Standa	rds - 6th G	Grade × +
\leftarrow \rightarrow C \triangle Not Secu	ure 192	168.1.198:3000/district/standards
edia Schools	Standa	rds Resources
6th Grade Math	49%	Overview Standards
7th Grade Math	42%	
8th Grade Math	31%	
Algebra I	52%	6th Grade Math Proficiency
Geometry	33%	100%
Algebra II	23%	
Algebra, Functions, and Data Analysis	20%	50%
Integrated Math I		
15-1		
Integrated Math II		Aug Sep Oct Nov Dec
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Integrated Math II Integrated Math III Statistics		Aug Sep Oct Nov Dec School
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Integrated Math II Integrated Math III Statistics AP Statistics Precalculus Calculus AP Calculus AB AP Calculus BC AP Precalculus		AugSepOctNovDecSchoolBrambleton Middle School ~Farmwell Station Middle ~Harper Park Middle ~J. Lupton Simpson Middle ~Mercer Middle ~River Bend Middle ~Seneca Ridge Middle ~Smart's Mill Middle ~Willard Middle School ~
Integrated Math II Integrated Math III Statistics AP Statistics Precalculus Calculus AP Calculus AB AP Calculus BC AP Precalculus		AugSepOctNovDecSchoolBrambleton Middle School ×Farmwell Station Middle ×Harper Park Middle ×J. Lupton Simpson Middle ×Mercer Middle ×River Bend Middle ×Seneca Ridge Middle ×Smart's Mill Middle ×Willard Middle School ×Sterling Middle ×

☆ 乙 Ø. 🖸 Support ← Switch to teacher 6 of 9 demographics v All schools 🗸 All subgroups 🗸 🗹 American Indian 16 592 🗌 Asian 212,485 answers 734 students Answers 🗹 Black 290 100% 40K $\langle m \rangle$ Hispanic (Black) 32 🗹 Hispanic (White) 514 20K 50% 🖌 Hispanic (Other) 616 ✓ Pacific Islander 1 White 1316 May Jun Jul Aug Se Jun Jul May Jan Feb Apr pr Other 291 May '24 Mar '24 Students Apr '24 Jun '24 Jul '24 Total growth Answers 18,327 51% 53% 56% +23% 58% 61 58% 17,409 29% +40% 59 32% 37% 43% 42% 86 37,451 38% 48% 61% +60% 67% 66% 70 4,105 7% 8% +6% 7% 7% 8% 54 15% +12% 3,786 13% 16% 16% 16% 159 59,024 30% 37% 40% 43% 43% +39% 11% 17% +16% 113 3,703 9% 15% 17% 82 37,194 38% 43% 48% +45% 52% 52% 31,486 68% +62% 41% 51% 60% 68% 50 13 0



My role at Edia

YEAR	2020	2021	2022	2023	2024
STAFF	<u>3 employees</u> CEO 1 Engineer <mark>1 Designer</mark>		<u>5 employees</u> +2 Content Writers	<u>9 employees</u> +1 Sales +1 Customer Success +2 Content Writers	<u>23 employees</u> +1 Head of Sales +11 Sales Team +2 Content Writers
STAGE	Our initial goal was to teachers that would sp Premium content and advanced questions) w tutoring and automate	make a free, high-quality product for math bread organically through word of mouth. more controls (eg. granular due dates, yould be an upsell. We also planned to sell ed report cards to parents.	We refined our free product retention. In-product survey product. But our premium Ed month and our parent produ We learned that the main re	until we had steady growth and 80%+ rs showed that teachers loved the dia+ product made less than \$1K per uct had no usage.	As Edia gets more involved at the principal or district administrator level, these customers Edia to show them the data to make better decisions. The future of Edia is building the "business dashboard" for public schools.
	Our naïve logic was th building a good produ be easier and scale mu	at building a sales team is hard, but ct with self-serve purchase options would uch faster.	lack of content , and that tea software purchasing decisio team and started reaching o principals.	achers had little influence over ons. So our CEO hired a content writing out to department heads and	We are working on a pilot to co-design a new dashboard with a school district in Colorado, will sell it as our second product in 2025.
MY ROLE	Designed assignment	creator for math teachers	Expand supported question	types on Edia	Build progress monitoring & remedial math
	Designed integrations	with EdTech platforms (Google, Clever)	Mobile + desktop interfaces	for all questions	programs for teachers and admins
	Designed premium pro	oduct with Stripe payment integration	Iterations, refinements, rede feedback surveys and # of s	esigns of finding content. Tracked successful content searches	Work with Colorado Springs D11 district to co design and pilot an attendance product
	Marketing emails for p	arent product			Support marketing team with one-pagers, RF presentations, product comparisons.

or want w , and D-FPs,

Learnings

Ask your customers

3 non-teachers built a product for teachers, which could be seen as a red flag.

But it gave us the humbleness to understand that we are not the user, and we need to ask our customers for feedback constantly. There is a different standard for software you have to rely on every day to do your job.

Simple designs = greater flexibility

Another issue with being non-teachers is that we didn't start the company with the full picture of how a school district works.

Our product suite was built incrementally as we learned about how educational organizations are structured, which resulted in a lot of redesigning UIs.

This would have been far more painful if we designed intricate, complex interfaces, but from the beginning we kept our code and design modular and easy to rearrange.

Stay lean until the product is defined

The first three years of the company were lean. There were only three of us coding and designing the product, writing thousands of math problems, or doing email and phone outreach to schools.

We changed the product several times, and this would have been much harder if we had large sales, training, and content teams.

Now that we've figured out our customer, the story that resonates with them, and the product they need, it's much easier to scale.



Additional work samples

HAROLD KIM · DESIGN CASE STUDIES

Various one-pagers l've designed for our sales team edia

Edia Learning www.edia.app

The only 6-12 Math solution that guarantees **better outcomes on STAAR**

Teachers get real-time data to differentiate and automatically personalize assignments

Data on Edia updates in real-time, not months later. Easily identify which standards students need help with and differentiate assignments in one click.

Admins get visibility across every grade level, campus, class, demographic, and student

Live dashboards answer critical questions about proficiency on end-of-year exams, gaps in instruction, or where to allocate staff.

Students get immediate Al coaching on every math problem

Al gives students personalized feedback that responds to their answers. Carefully engineered to guide the student, not give the answer.





Trusted by

Loudoun County Public Schools





Contact John Appleseed appleseed@edia.app



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Scan to request more info Andy Graham (407) 920-4499 Dan Watters (843) 412-6468

Edia guarantees improvement on the SC Ready

Edia is the only 6-12 math solution that connects all tiers of instruction, so that every student can succeed at math.



school classroom. It's been a big hit among my students." - Math Teacher, New Jersey

"It is hard to find programs that Math teachers can customize and see real results. Edia is a GAME CHANGER!." - Math Dept. Chair, Virginia

the first time she's taken a math exam and didn't feel anxious the night before." - K-12 Math Coordinator, Texas

> "I don't ever want to go a single day without having Edia." – Math Teacher, California



Column wraps designed for a conference in North Carolina



form small groups



Every screen on Edia is designed for both desktop & mobile.

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Find the coordina and directrix.	ates of the vertex giv	en the foc	us
focus: $(-1, -$ directrix: $y =$	$^{-6)}_{-12}$		
Your answer		Rep	oort issue
	(5,6)		8
Correct answer			
	(-1,-9)		
Explanation A parabola is defin <u>distance</u> from a fixe point is called the f	ed by all points that a ed point and a fixed li focus, and the fixed lir	are the sam ne. The fix ne is callec	ne ed I the
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directrix. The <u>vertex</u> of the p the focus, so	parabola has the same	x-coordir	ate as
directrix. The <u>vertex</u> of the p the focus, so	oarabola has the same Next question	x-coordin	ate as
directrix. The <u>vertex</u> of the p the focus, so	Next question	<i>x</i> -coordin	ate as
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We're expanding to K-5, where tablets are more common.



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What I can do for you

Early-stage startups

Do-it-all generalist.

- Rapid iterations to find product-market fit. I've been through early-stage enough times to understand the balance between moving fast and high craft.
- Create a simple brand, logo, and lightweight design system that can be expanded as the company evolves.
- Marketing materials (email, digital ads, flyers, banners, stickers, LinkedIn banners, documents, etc.)

Mid-size

Senior/Staff IC

• Complete projects start to finish with minimal guidance and high craft • Shape early-stage projects with sprints, brainstorms, and rapid prototyping • Make design move faster by building internal tooling, contributing to design systems, and creating templates that make researchers, PMs, and copywriters more effective designers too

• Coach/mentor teammates

What I'm interested in

B2B with consumer sensibilities.

Products in complex industries that break through by designing effortless interfaces. See: Ramp, Slack, Gong.

Marketing.

I've worked at startups with great products that struggle with marketing. What's our message, how do we say it, and how do we know it's landing with customers? How do we keep the team aligned and maintain a consistent style across our touchpoints? This is a field primed for disruption by AI. See: Jasper Al, Canva



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