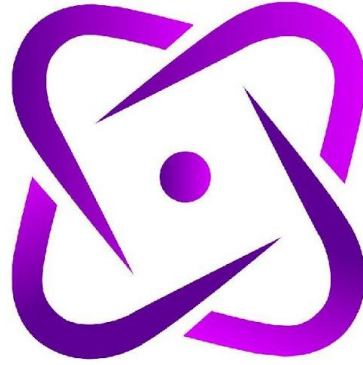




amethyst

CHANGEMAKERS

BRIDGING ABILITIES IN STEM

Meet Alex - A 7th grade student



- Has exceptional pattern recognition abilities
- Loves Rubik's cubes
- Loves STEM
- Struggles to participate fully in labs and group activities

"I know I could do this if I could just learn differently"

- **1 in 5 students** have learning differences that affect how they process information
- Students like Alex **represent millions** of untapped STEM minds
- Most affected: students with learning disabilities, ADHD, autism spectrum disorder, and processing differences

Students like Alex need both accessible STEM tools AND inclusive classroom communities

Problem: STEM Access Gap

“Only **10%** of students with disabilities pursue STEM degrees”, *National Science Foundation*

- Students with disabilities are **highly underserved** in STEM education
- Many are **tracked away** from pursuing STEM **despite having equal potential**
- While STEM equity initiatives grow, disability is often absent from the conversation

"I feel like science isn't for people like me" - Student

Market Opportunity

TAM (US STEM Education)

US K–8 public schools with STEM curriculum
7.5M students with disabilities



SAM (Inclusion Classrooms)

Target: K–8 inclusion classrooms in U.S. public schools
Estimated ~150,000 elementary/middle STEM
classrooms



SOM

100 classrooms in 2 years
~2,000 students reached

Solution Overview: Universal Design STEM Kits

Multi-sensory instructions

Visual, digital formats for all learning styles

Universal Design Tools

Adapted equipment with accessible features

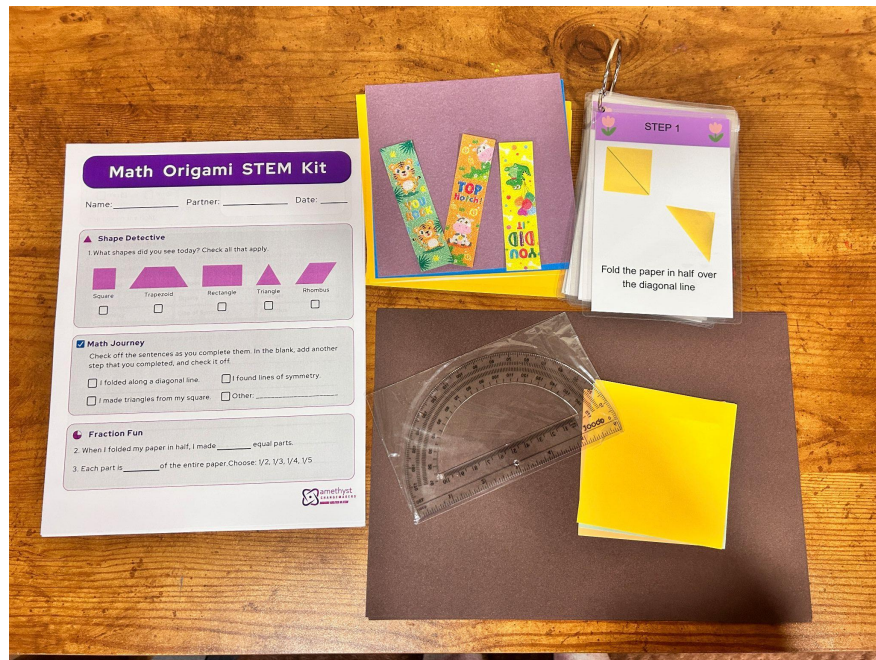
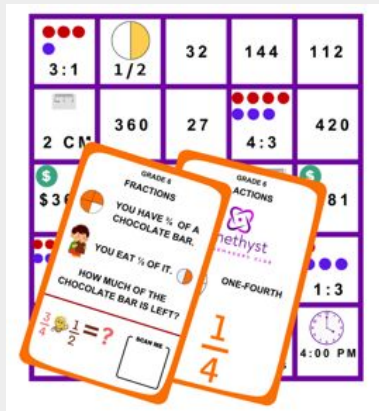
Structured Process

Clear step-by-step guidance with success checkpoints

What is Universal Design?

A framework for creating products and environments that are accessible and usable by all people, regardless of ability, age, or learning style

Our Solution: Accessible STEM Kits



Built with Universal Design for Learning (UDL) from the start.

Positioning: What Makes Our Approach Unique

Traditional STEM Resources

- One-size-fits-all approach
- Excludes many learners
- Limited engagement

WHO BENEFITS?

Only typical students

Specialized Disability Resources

- Stigmatizing
- Segregates students
- Separate accommodations

WHO BENEFITS?

Only students with identified needs

Our Solution

- Universal design for all
- Inclusive by default
- Builds community while teaching STEM

WHO BENEFITS?

Everyone benefits!



Market Plan

DESIGN

Student led team with inputs and feedback from both science teachers and special educators

PROTOTYPE

Test with diverse students

PRODUCE

Assembly Process for Kits

DISTRIBUTE

Schools, After school clubs

Traction

Piloted in 8 classrooms in Peoria School District
Implemented in CPS schools
700+ students reached
Partnerships with 4 organizations
300+ volunteer hours
Grant funding secured: \$5,000



The kits were organized with all materials neatly included. The students loved the hands-on activity
•*Karen Lune, Special Education Teacher*

The students actively participated in hands on magnetism activity and able to explore how magnetic forces work. It was a success
•*Wilson Solbita, 6th Grade Teacher*

Revenue Model

Cost per Classroom Kit (20 students)

Materials + printing: \$110

Assembly + packaging: \$40

Tech + platform allocation: \$20

Total Cost: \$170

Price Per Classroom: \$250

Each paid classroom subsidizes access for underserved schools.

Revenue Streams

1

**School / District
Purchases**

2

Grant Funding
Educational Organizations

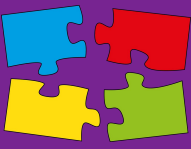
3

Corporate Sponsorships

4

**Student Led STEM
Workshops**

Timeline



Assemble STEM kits
for 2 classrooms

Piloting at local
middle schools

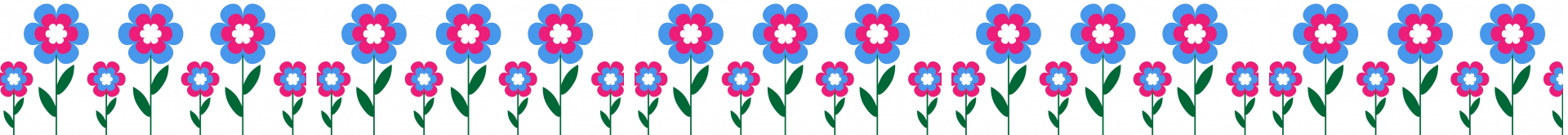
Implement feedback

Assemble STEM kits
for 10 more local
schools

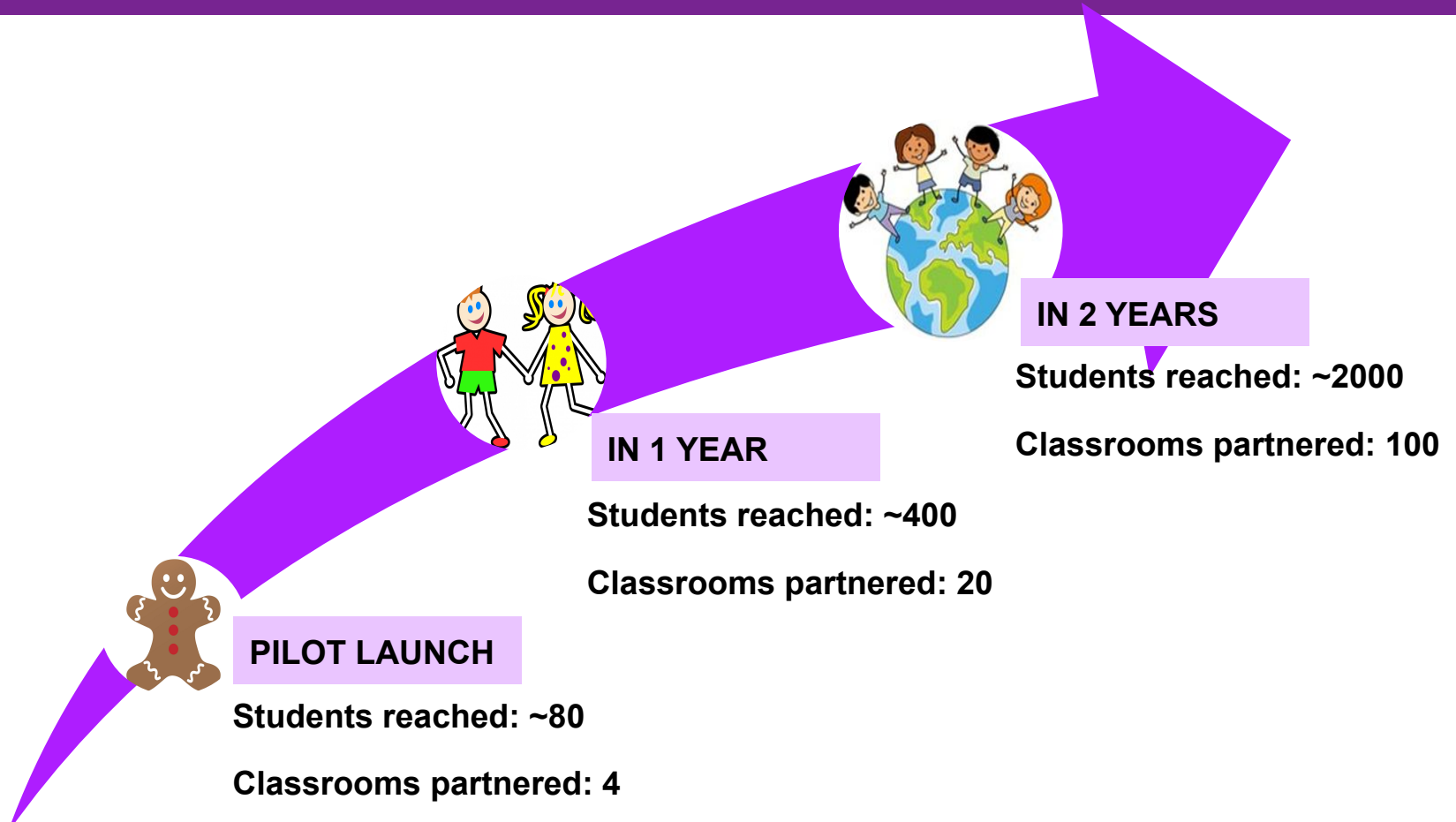
Partnership with
Schools/clubs at the
State level

Outreach to the
neighboring states

National distribution
through partnership
with established
inclusion education
nonprofits



Impact Projection



Team

Amritha Praveen

- Founder and President
- Volunteered at disability organizations
- Davidson Ambassador
- MATHCOUNTS Community Coach



Parvana Gireesh

- Vice President
- Volunteered at disability organizations

Team