

# How many hats does a teacher wear?





# The Deaf Ed Math Problem



# Deaf Ed Math Classroom

Reading Level: 1st Grade

Language: ASL

Math Level: 2nd Grade

Enrollment: 8th grade

**Ana**



# Deaf Ed Math Classroom

Reading Level: 3rd Grade

Language: ASL/Oral

Math Level: 2nd Grade

Enrollment: 6th grade

**Jamie**



# Deaf Ed Math Classroom

Reading Level: 2nd Grade

Language: Oral with Sign  
Support

Math Level: 4th Grade

Enrollment: 5th grade

**Rayan**



# Deaf Ed Math Classroom

Reading Level: 3rd Grade

Language: ASL/Oral

Math Level: 4th Grade

Enrollment: 7th grade

**Giselle**



# Deaf Ed Math Classroom

Reading Level: 4th Grade

Language: ASL

Math Level: 5th Grade

Enrollment: 7th grade

**Hunter**





# Deaf Ed Math Classroom

Reading Level: 2nd Grade

Language: Fluent ASL

Math Level: 4th Grade

Enrollment: 6th grade

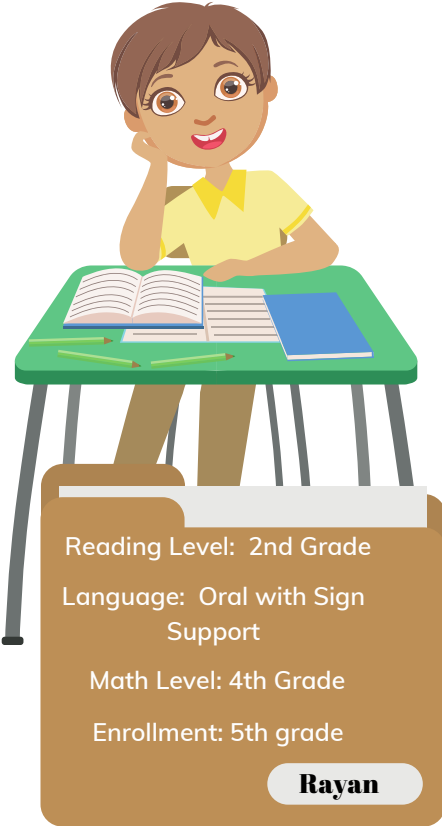
**Alejandro**



# Deaf/HH Math Classroom



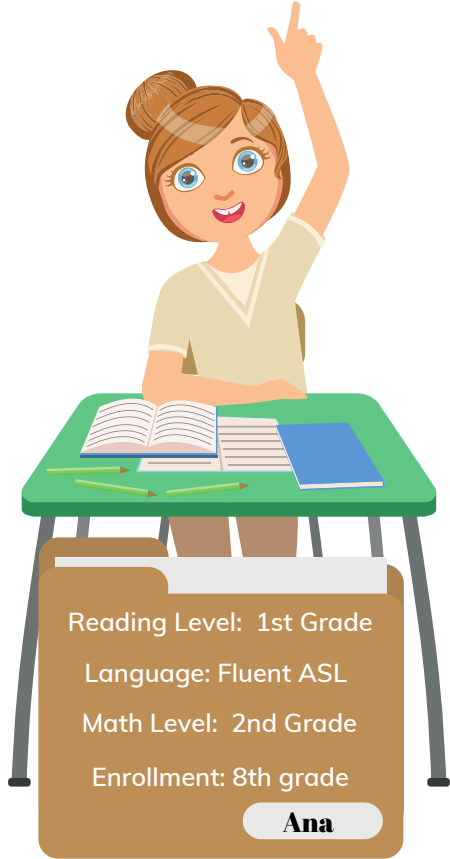
Reading Level: 3rd Grade  
Language: ASL/Oral  
Math Level: 4th Grade  
Enrollment: 7th grade  
**Giselle**



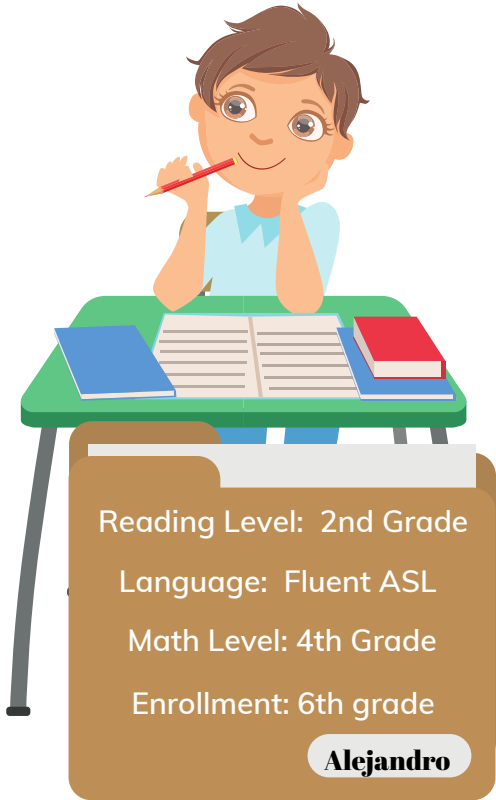
Reading Level: 2nd Grade  
Language: Oral with Sign Support  
Math Level: 4th Grade  
Enrollment: 5th grade  
**Ryan**



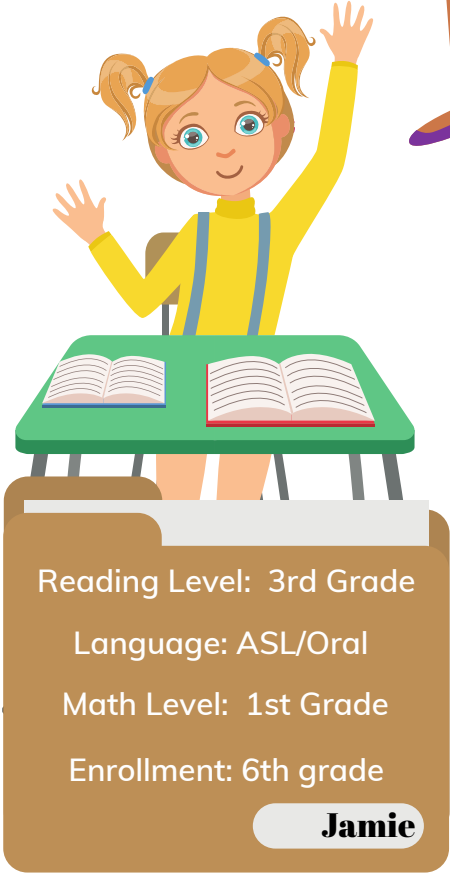
Reading Level: 3rd Grade  
Language: Fluent ASL  
Math Level: 5th Grade  
Enrollment: 7th grade  
**Hunter**



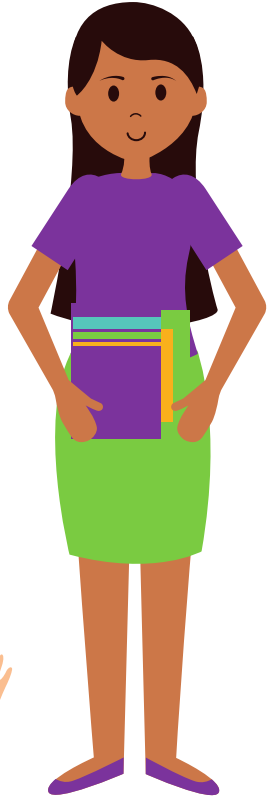
Reading Level: 1st Grade  
Language: Fluent ASL  
Math Level: 2nd Grade  
Enrollment: 8th grade  
**Ana**



Reading Level: 2nd Grade  
Language: Fluent ASL  
Math Level: 4th Grade  
Enrollment: 6th grade  
**Alejandro**



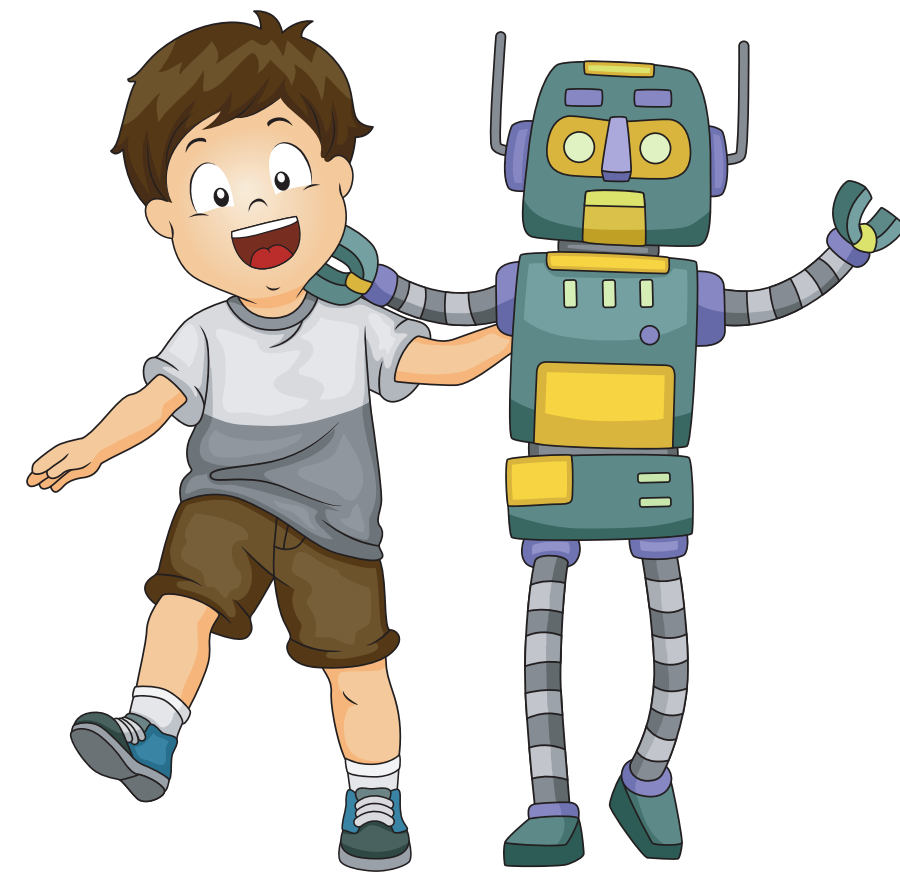
Reading Level: 3rd Grade  
Language: ASL/Oral  
Math Level: 1st Grade  
Enrollment: 6th grade  
**Jamie**



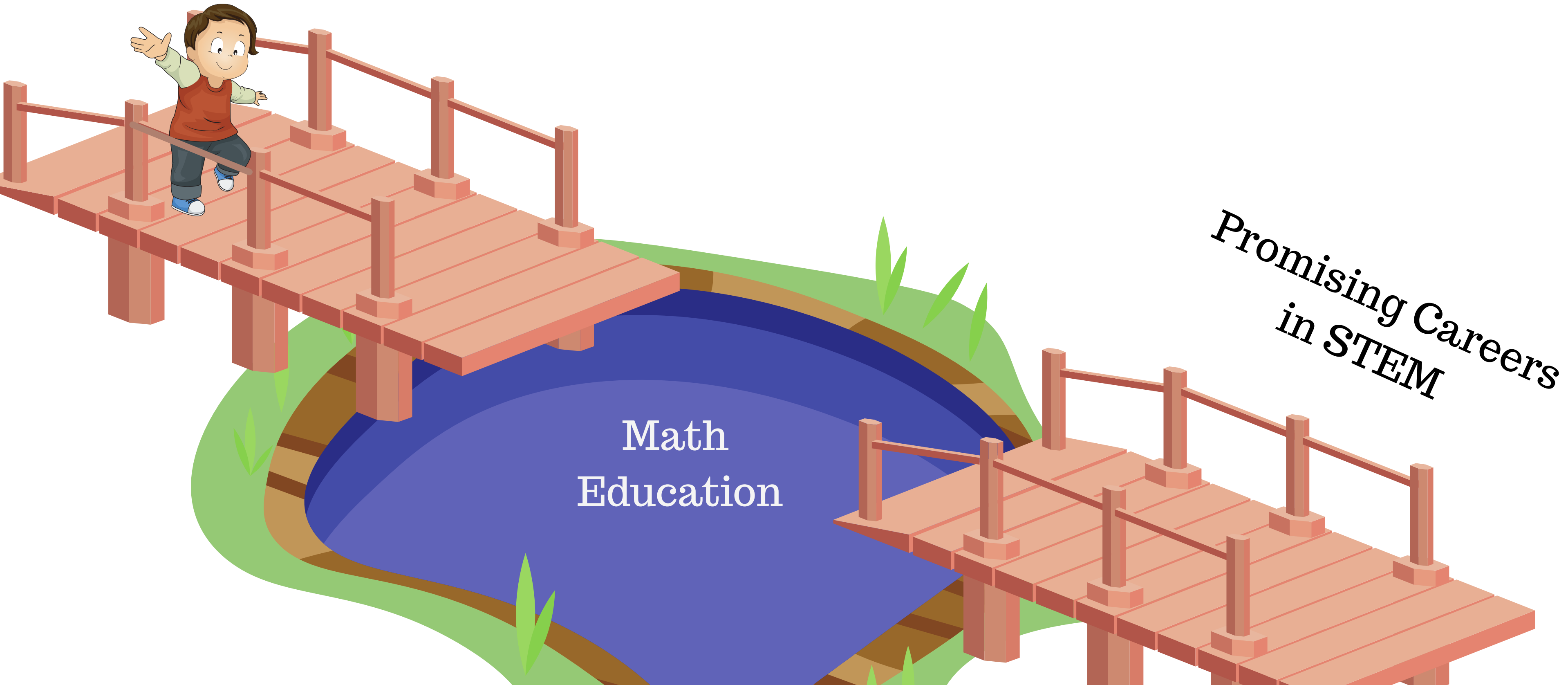
# The Math Problem

STEM fields promise great career opportunities for students who are Deaf/HH.

How do we bridge the gap?



# The Math Problem



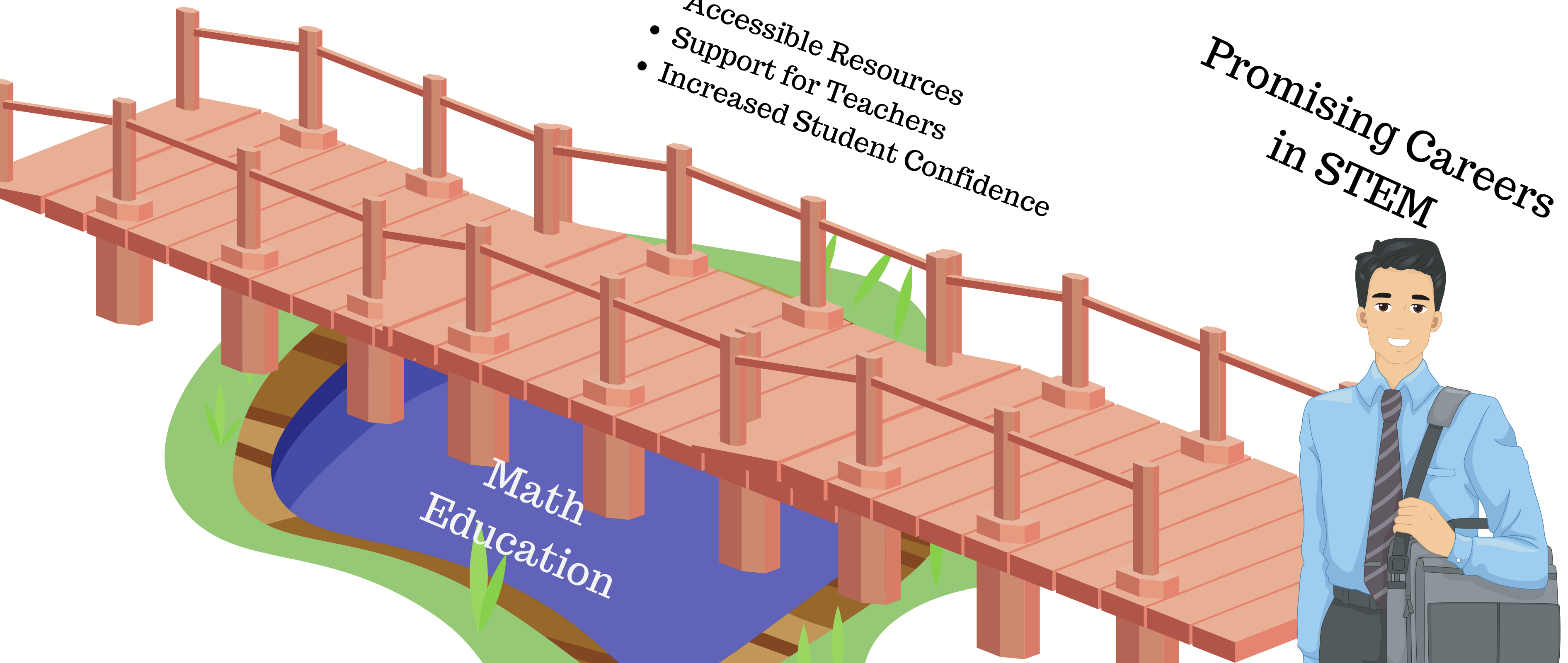
Math  
Education

*Promising Careers  
in STEM*

# The Math Problem

- Accessible Resources
- Support for Teachers
- Increased Student Confidence

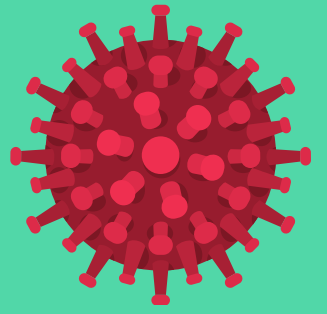
Promising Careers  
in STEM



# The *Original* Problem

- 1 Growing trend toward educational technology, few educational tools available to meet specific needs of Deaf/HH children.
- 2 Deaf/HH students need *individualized* materials to learn, with access in mind.
- 3 Teachers are overworked and teaching multiple levels at the same time. Limited resources that students can use independently.

# The COVID Problem



4 Students are learning from home, at least part of the time.

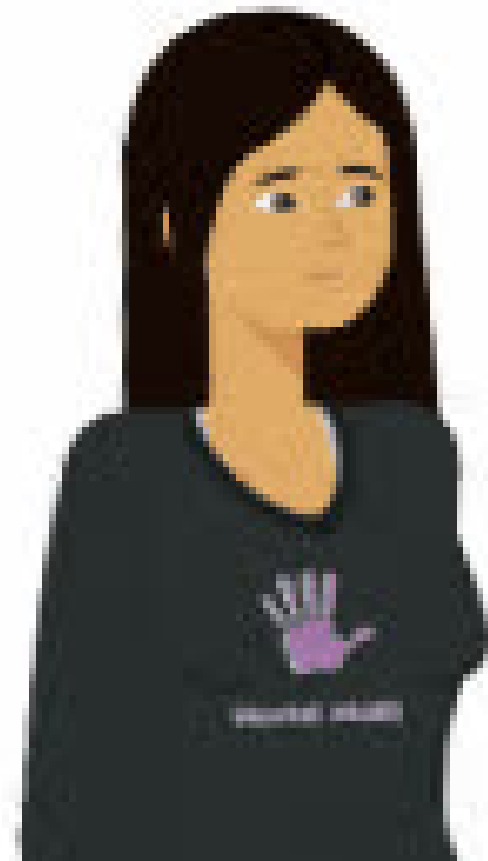


5 Teachers now have to design or find material that students can do independently.

6 Teachers are even more overworked while teaching multiple levels at the same time.




We need teacher created  
resources that are readily  
available.





# We need a tool that...


**1** is easy to use, can be accessed from anywhere and made with Deaf/HH children in mind.



**2** allows students to work independently and builds student confidence.



**3** saves time for teachers by reducing planning and adapting of materials.



**4** aids in monitoring student growth and data.

# Video Bonus Questions on Google Classroom

- ✓ Easing Transitions
- ✓ Differentiation
- ✓ Visual Support
- ✓ Text Support
- ✓ Independent Work
- ✗ Saving Plan Time
- ✗ Voice over





# What topics are included?

(No regrouping) e. Subtracting Story Problems - Give away and How many more	
<b>11. Even or Odd</b> a. Even or Odd?	<b>12. Time</b> a. What time is it? (Half hours) b. What time is it? (5 minutes) c. Find the Correct Clock
<b>13. Money (United States)</b> a. Reading: How many cents? b. Which is one dollar? c. How much money? (up to \$1) d. How much money? (Up to \$6) e. Do you have enough? (Buying one item) f. Adding Money (Two items) g. Do you have enough? (Buying two items)	<b>14. Geometry</b> a. Find the shape: Flat and Solid b. Flat or Solid? c. What is the perimeter? d. Counting Sides

# How can it be used in the classroom?



# How can it be used with remote learning?

Modal Math | Kahoot!

learn.modalmath.com/courses/take/level-1/quizzes/7770337-subtracting-story-problems-give-away

You are previewing as an enrolled student

< All Levels

Adding within 10 0/3

Adding within 20 0/5

Adding with 3 numbers 0/4

Subtracting within 10 0/3

Subtracting by Crossing Out QUIZ - 42 QUESTIONS

**Subtracting Story Problems (Give away) QUIZ - 23 QUESTIONS**

Subtracting with Numbers Only QUIZ - 18 QUESTIONS

Subtracting within 20 0/5

Place Value (Ones and Tens) 0/4

Counting to 120 0/3

Reading: Matching Words to Signs and Numbers 0/1

Comparing within 120 0/1

Measuring Length 0/2

Temperature 0/2

Time 0/5

Graphs 0/5

Money (United States) 0/3

Calendar Skills 0/7

Chances 0/3

Subtracting Story Problems (Give away)

QUESTION 6 OF 23


LeVar has 4 sandwiches. He gives 2 to Puneet.


LeVar Puneet


$4 - 2 = 2$

Choose only ONE best answer.

A 0 Sandwiches














B 1 Sandwich 

C 2 Sandwiches 

D 3 Sandwiches 

# The Resource Library

A growing resource library with free and paid resources for Teachers of the Deaf/HH

<b>Distance Learning with a student who is Deaf/Hard of Hearing</b> <i>Some tips compiled to make it easier for Deaf/HH students to learn virtually.</i>	<b>Aprendizaje en línea: apoyo a su hijo con pérdida auditiva</b> Algunos consejos recopilados para facilitar que su hijo sordo / HH aprenda de manera virtual.
<b>Use a microphone or headset</b> if available, this can make it easier for the student to hear you clearly. 	<b>Use un micrófono o auriculares</b> Su maestro debería usar uno, ¡pero tener uno para su hijo también puede ayudar! 
<b>Use Closed Captioning on all Visual Media</b> Students should know to turn on closed captioning on videos that they would watch during their independent learning time. 	<b>Utilice subtítulos en todos los medios visuales</b> Dígales a sus maestros con anticipación que necesita subtítulos en todos los medios. Si no está allí, ¡dígaselo a su maestro! 
<b>Light should be facing you, not behind you.</b> Posterior lighting darkens the face and makes it more difficult to get visual cues. 	<b>La luz debe estar frente a usted, no detrás de usted.</b> La iluminación posterior oscurece la cara y dificulta la obtención de señales visuales. Solicita que tu maestro haga lo mismo. 
<b>Reduce background noise.</b> Please turn off any background noise in your space (ex. Fan, TV, dishwasher). 	<b>Reducen el ruido de fondo.</b> Apague cualquier ruido de fondo en su espacio (por ejemplo, ventilador, TV, lavavajillas). Pídale a su maestro que haga lo mismo. 
<b>Mute all students.</b> This makes it clear to follow who is speaking. 	<b>Todos los estudiantes deben ser silenciados.</b> Esto deja claro seguir quién está hablando. 
<b>Determine a procedure for asking questions.</b> For example, typing Q in the chat box to indicate the child has a question. 	<b>Haz un plan con el maestro sobre cómo harás preguntas.</b> Por ejemplo, escribir Q en el cuadro de chat para indicar que el niño tiene una pregunta. 
<b>Check for understanding in open-ended questions.</b> Avoid yes/no questions. 	<b>Asegúrate de que el profesor nombre quién está hablando</b> Asegúrese de que su maestro diga el nombre de la persona que está hablando y aclare lo que ha dicho. 
<b>State the name of the student being called on, and repeat what was said.</b>	<b>Pide repetición.</b>


- Inservices
- Downloadable PDFs
- "Smart" Worksheets
- Infographics
- Video Lessons

# The Resource Library

## Smart Worksheets


Name: \_\_\_\_\_ Date: \_\_\_\_\_  
Class: \_\_\_\_\_ Teacher: \_\_\_\_\_

### Adding with Regrouping



$\begin{array}{r} 16 \\ +14 \\ \hline \end{array}$	$\begin{array}{r} 18 \\ +17 \\ \hline \end{array}$	$\begin{array}{r} 21 \\ +19 \\ \hline \end{array}$	$\begin{array}{r} 34 \\ +27 \\ \hline \end{array}$
$\begin{array}{r} 56 \\ +15 \\ \hline \end{array}$	$\begin{array}{r} 44 \\ +39 \\ \hline \end{array}$	$\begin{array}{r} 78 \\ +21 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ +12 \\ \hline \end{array}$
$\begin{array}{r} 88 \\ +43 \\ \hline \end{array}$	$\begin{array}{r} 99 \\ +13 \\ \hline \end{array}$	$\begin{array}{r} 25 \\ +35 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ +56 \\ \hline \end{array}$
$\begin{array}{r} 18 \\ +93 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ +24 \\ \hline \end{array}$	$\begin{array}{r} 55 \\ +17 \\ \hline \end{array}$	$\begin{array}{r} 74 \\ +32 \\ \hline \end{array}$
$\begin{array}{r} 62 \\ +52 \\ \hline \end{array}$	$\begin{array}{r} 94 \\ +29 \\ \hline \end{array}$	$\begin{array}{r} 22 \\ +71 \\ \hline \end{array}$	$\begin{array}{r} 68 \\ +40 \\ \hline \end{array}$

Use your QR code scanner for online practice with sign!



2:37

Close learn.modalmath.com

You are previewing all course lessons

### Adding with 2 digit Numbers - (Regrouping)

QUESTION 1 OF 10

$$\begin{array}{r} 37 \\ +18 \\ \hline \end{array}$$

Choose only ONE best answer.

A

45

B

55

CONFIRM

### Adding with 2 digit Numbers - (Regrouping)

QUESTION 1 OF 10

$$\begin{array}{r} 37 \\ +18 \\ \hline \end{array}$$

Choose only ONE best answer.

A

45

B

55

learn.modalmath.com/courses/take/level-2/quizzes/8209798-adding-with-2-digit-numbers- regrouping

You are previewing all course lessons

### Adding with 2 digit Numbers - (Regrouping)

QUESTION 1 OF 10

$$\begin{array}{r} 37 \\ +18 \\ \hline \end{array}$$

Choose only ONE best answer.

A 45

B 55

CONFIRM



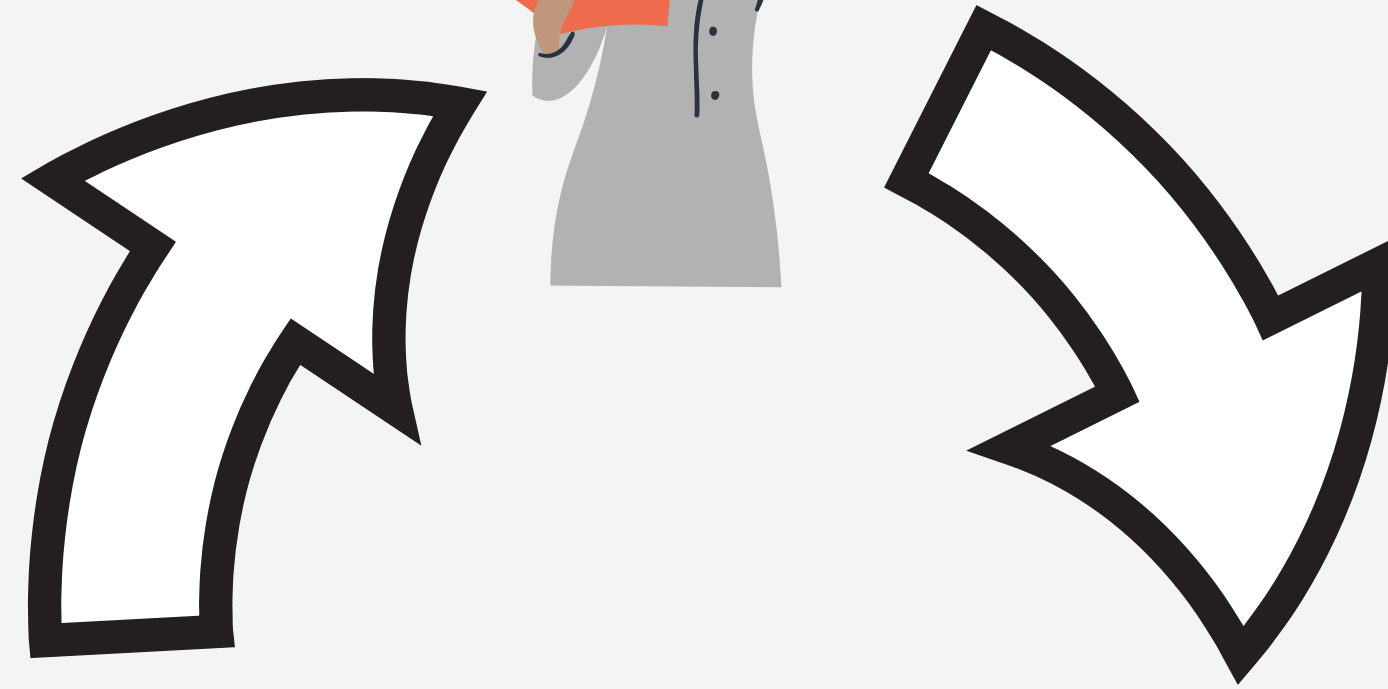
# What Modal Math is not...

It is not a stand-alone curriculum or a substitute for teacher instruction.

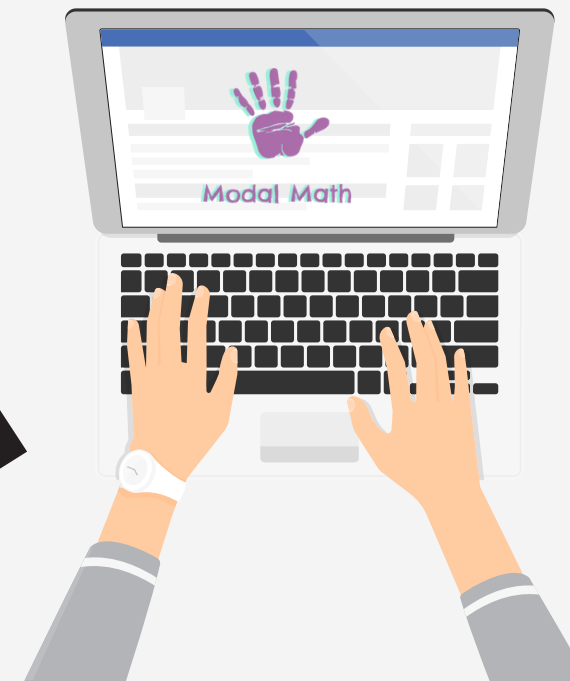
It won't show you how to teach math or give you lesson plans. It will help students *strengthen* the concepts you teach them through practice.

Modal Math is meant to be supplementary. It is a tool to make lives easier for students and teachers. Students still need direct instruction on concepts.

# Teach



Review  
to inform  
instruction



# Practice

# What teachers are saying...

**I absolutely love Modal Math.** I teach a multi-age class of 3 year-olds to first graders. This is the BEST math program I've ever found for DHH kids. It makes assessing students and providing 1:1 and small group interventions easy because I know where kids are. My students and families really enjoy Modal Math. It is an easy way for them to continue learning during virtual learning and for parents to learn the signs for math concepts. Modal Math provides a different way for me to work with students other than our district provided curriculum. I've been teaching DHH students for 9 years and **I've been looking for something online that works and this is it!**

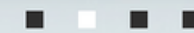
— *Sarah B, Teacher*



# What teachers are saying...

The questions and answers are provided with the use of all the supports for DHH: sign language, voice, visuals, and the use of text! The students are also able to access Modal Math at home with their families! Which means, **with the use of the visual Sign Language video the families can learn the signs and understand the math concepts needed for our students.** We are so excited to use this resource for Math!

— *April H, Teacher*



# What teachers are saying...



Katie W, Teacher

Modal Math has been an extremely useful resource for my math students, especially now that we are all teaching remotely. Having had experience teaching Deaf/Hard of Hearing students ranging from 4th to 12th grade, I have searched for a supplemental resource to help my students practice the Common Core math skills, one with visual pictures as well as signs presented in their first language, ASL. This is currently the only resource I could find like it! Given direct skills instruction first, my students are able to utilize Modal Math independently with confidence and success.

# What's coming next?

**Teacher of the Deaf/HH communities for collaboration and resource sharing**

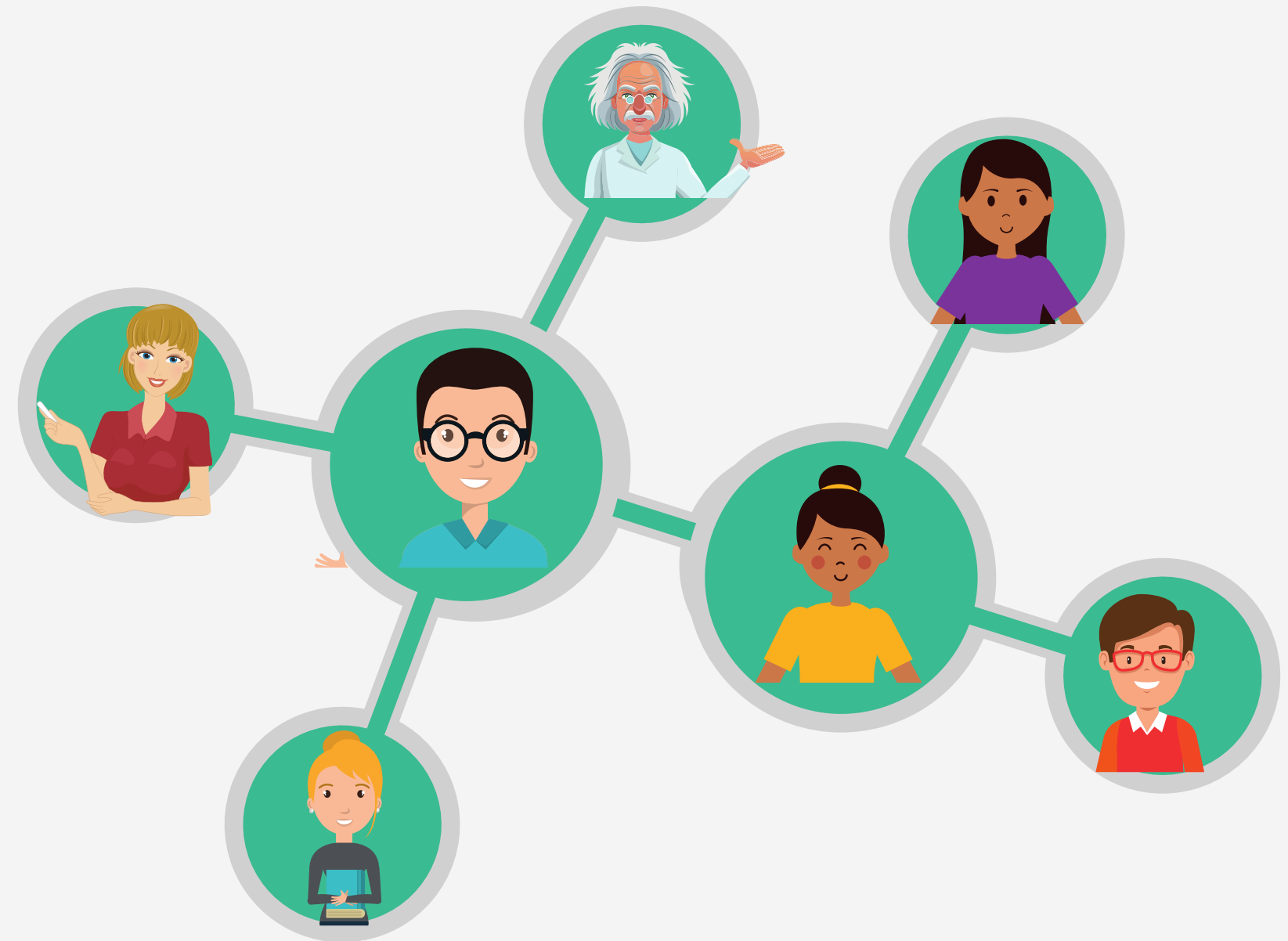
Because teachers have the best ideas, and no one knows teaching the way teachers do!



# What's coming next?

## Teacher Referral Program

Rewards for referring other teachers or schools/districts



# Teachers of the Deaf/HH,

Please design and distribute!



Google Slides



Powerpoint



Boom Cards



Word



Canva



Teachers Pay Teachers



Youtube





# Contact

[www.modalmath.com](http://www.modalmath.com)



[contact@modalmath.com](mailto:contact@modalmath.com)



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