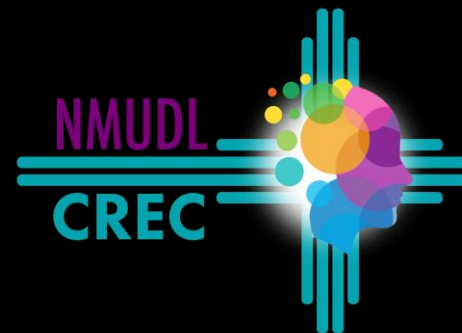




# Enhancing Access to Education

## UDL and AT Solutions for NM Students

Jennifer Armstrong & Rebecca Thomas







NM UDL Team



# Free Coaching Educators and Students

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- LEA Charters/State Supported- 41
  - Schools-114
  - Students- 31, 285
  - Full Staff Professional Development
  - Professional Learning Communities
  - Classroom Modeling and Access
  - Virtual Cafes
  - State Conferences
- 



**NM UDL CAFE**

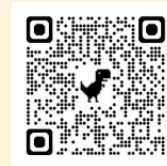


## Bookshare

**Looking to better support students with print disabilities?**

**Come learn all about Bookshare—a free, accessible reading platform that opens up a world of books and learning materials for eligible students.**

**August 20, 2025  
3:45 pm - 4:15pm**



**Register - [bit.ly/3UhUQRA](https://bit.ly/3UhUQRA)**



# What is Universal Design for Learning?





# Design Multiple Means of **Engagement** →



Engagement  
Design Options for...

- Welcoming Interests and Identities
- Sustaining Effort and Persistence
- Emotional Capacity

On a scale of cheese,  
how are you feeling  
today?



I'm feeling  
Brie-lliant!



I'm feeling kinda  
Feta-up.



I'm Mozzaready  
for the weekend!



I'm feeling kinda  
Blue today



I feel Ricottan  
lotta feelings.



I feel Gouda!

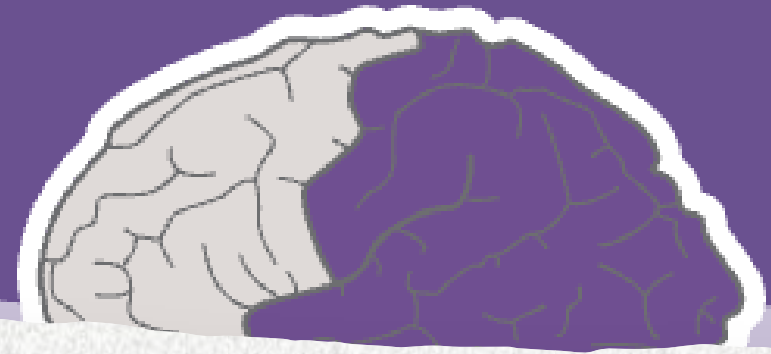




## New Mexico Showcase – Engagement



# Design Multiple Means of Representation →



Representation  
Design Options for...

- Perception
- Language and Symbols
- Building Knowledge



# Input 1

**Prestissimo**

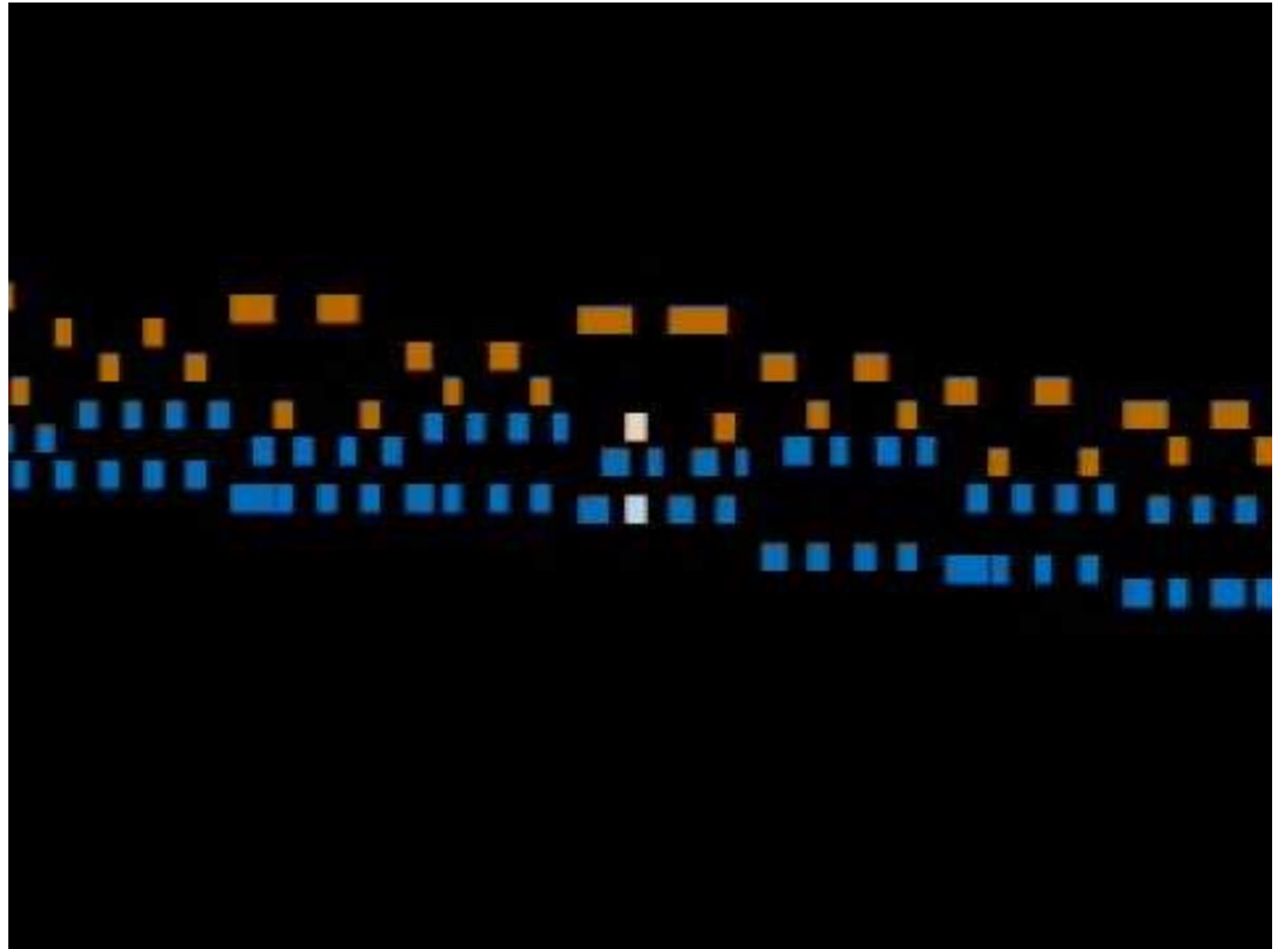
The musical score is written for a piece marked **Prestissimo**. It consists of six systems of staves. The first system has three staves: the top two staves contain rapid sixteenth-note passages, while the bottom staff contains whole rests. The second system has two staves with similar rapid sixteenth-note passages. The third system has one staff with whole rests. The fourth system has two staves with rapid sixteenth-note passages. The fifth system has two staves with rapid sixteenth-note passages. The sixth system has one staff with whole rests. The music is in 2/4 time and features a key signature of one sharp (F#).

## Input 2





## Input 3







New Mexico Showcase - Representation

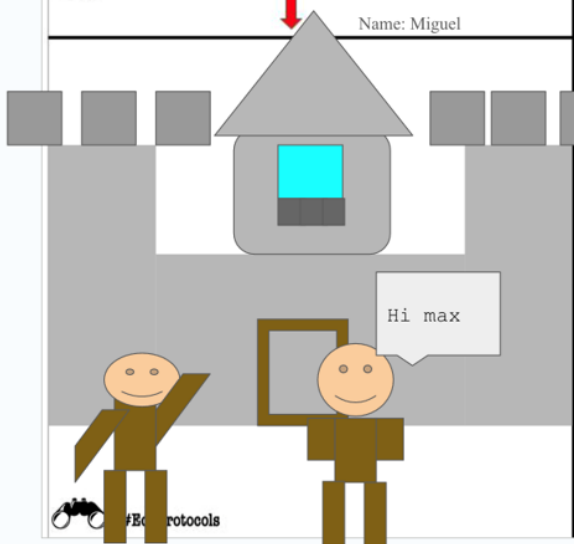


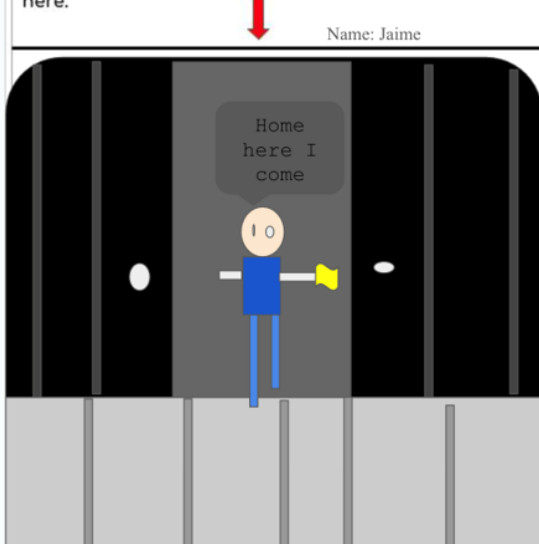
# Design Multiple Means of **Action & Expression** →



Action & Expression  
Design Options for...

- Interaction
- Expression & Communication
- Strategy Development

<b>Sketch:</b> Using Google Drawing sketch your picture here.	<b>Tell:</b> Type question here describe the character
<div style="text-align: right;">Name: Miguel</div> 	<p>Type answer here: max was sleeping in tall gars then a mean came Out of no war he sind thay are looking for us he sined then he Tuk us in to a villge then we hide into haldeld they war good</p>

<b>Sketch:</b> Using Google Drawing sketch your picture here.	<b>Tell:</b> Describe a character in detail
<div style="text-align: right;">Name: Jaime</div> 	<p>Charlie bucket is a young boy that his face looks scrunchy and his family is poor and he is family is binging to go starving and that is why they save food for him and one day he is walking home from school he looks down on the floor and saw a greenish paper he got it in his hand a 1 dollar bill he goes to the candy store and buys a chocolate bar and demolishes it and buys 1 more then gets a golden ticket and gets out of the store with the golden ticket and is excited to go to wonka's factory the next day.when he gets home he will tell his family about it.</p>

# New Mexico Showcase – Action & Expression



# UDL Goal-Learner Agency



# New Mexico Showcase





# Barriers and Breakthroughs

Turn & Talk- Common barriers to learning

Think of a time you encountered a barrier while in school.

Did you have a breakthrough?

How would your school life have been better, improved, different if you would have had access then?



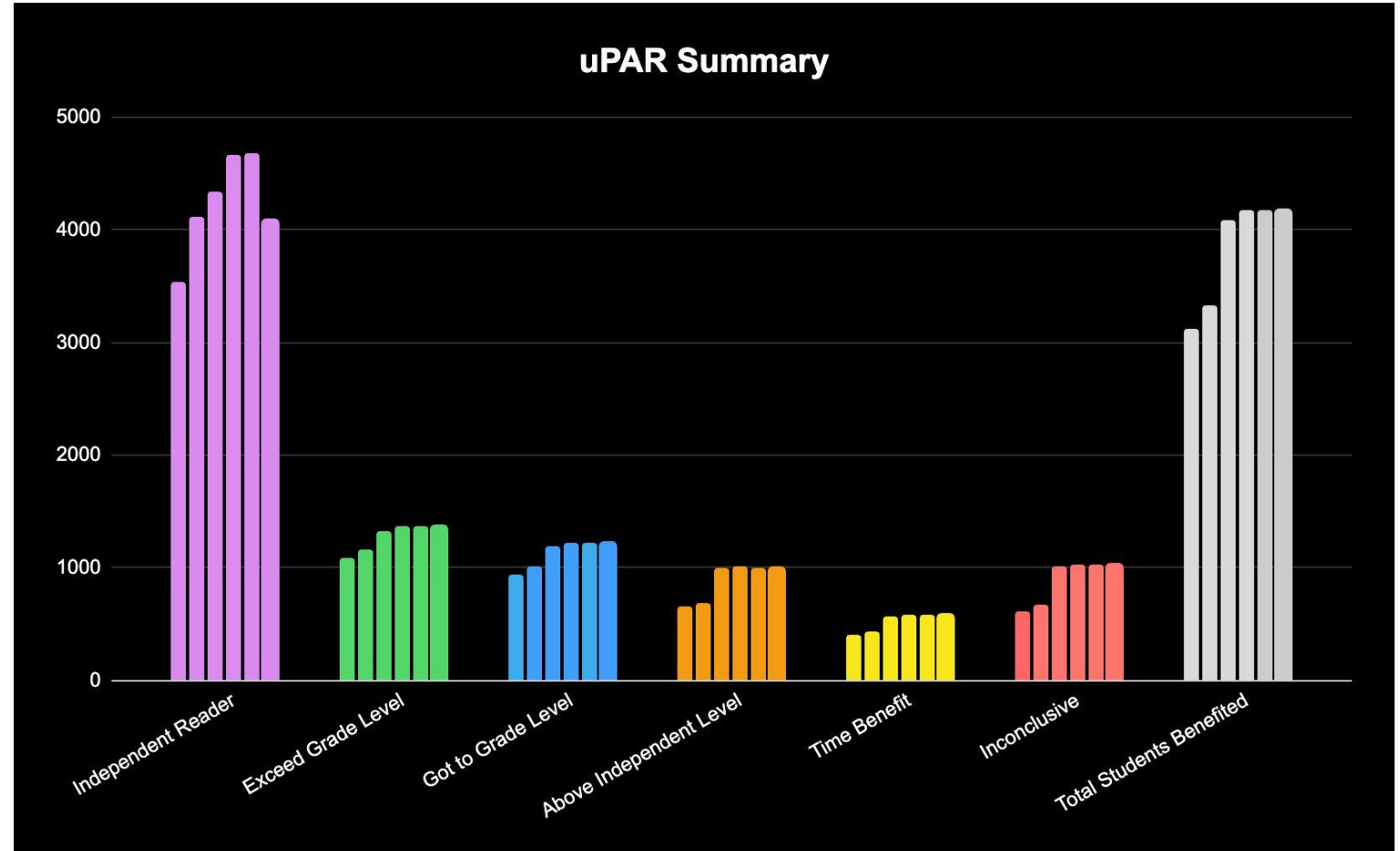


# Accessible and Assistive Technologies

UDL Consideration:  
Optimize Access to  
Accessible Materials  
and Assistive and  
Accessible  
Technologies and  
Tools

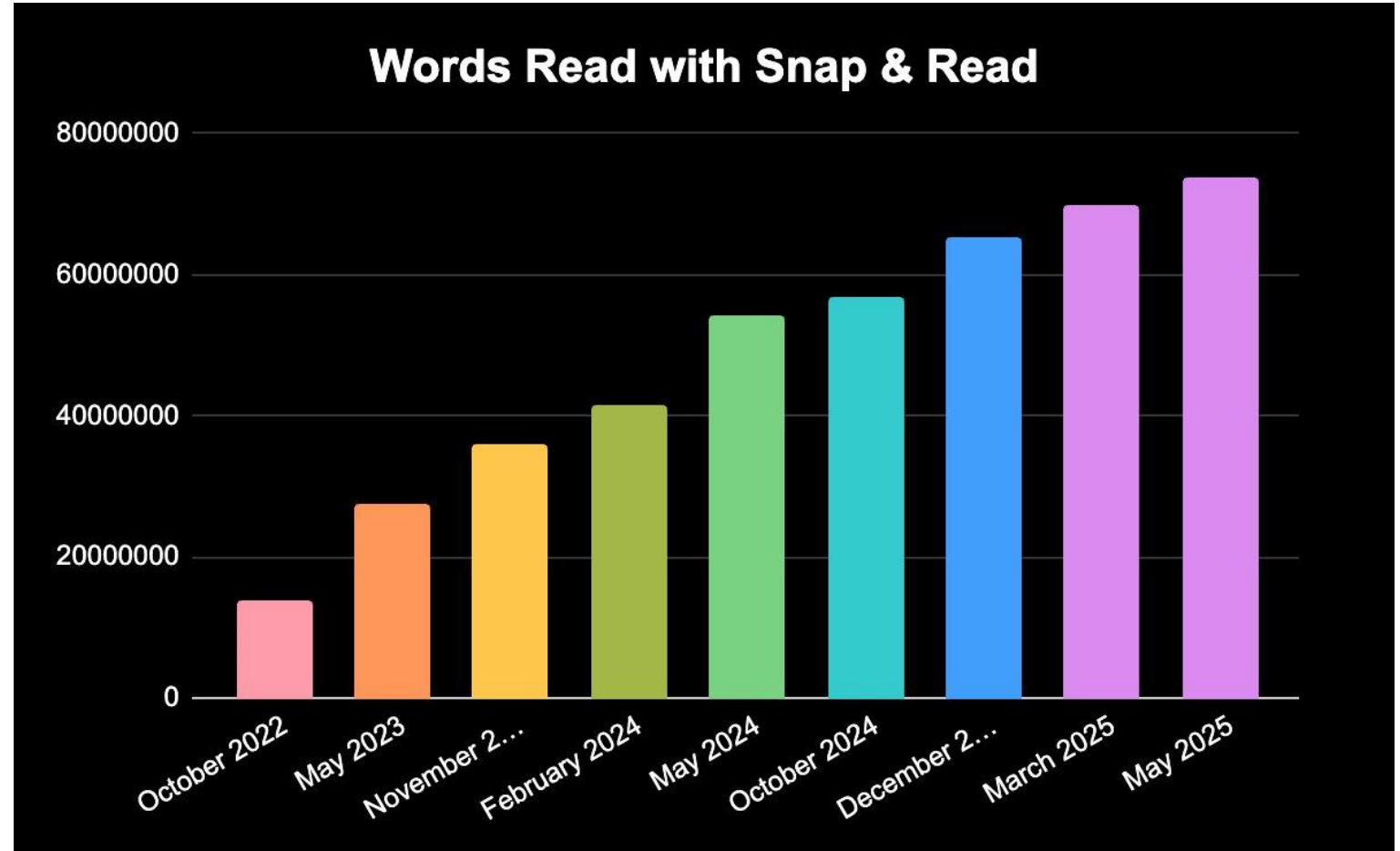
# Universal Protocol for Accommodations in Reading

Measuring Reading  
Comprehension with  
Accessible Technology





# Increase in Student Reading with Technology





# Literacy Access

- Create more independent learners
- Motivate Students to Learn
- Help Students to Study Smarter
- Support Students with Learning Disabilities

# Accessibility Features in Read & Write

Word Prediction

Speech Recognition

Topic Dictionaries

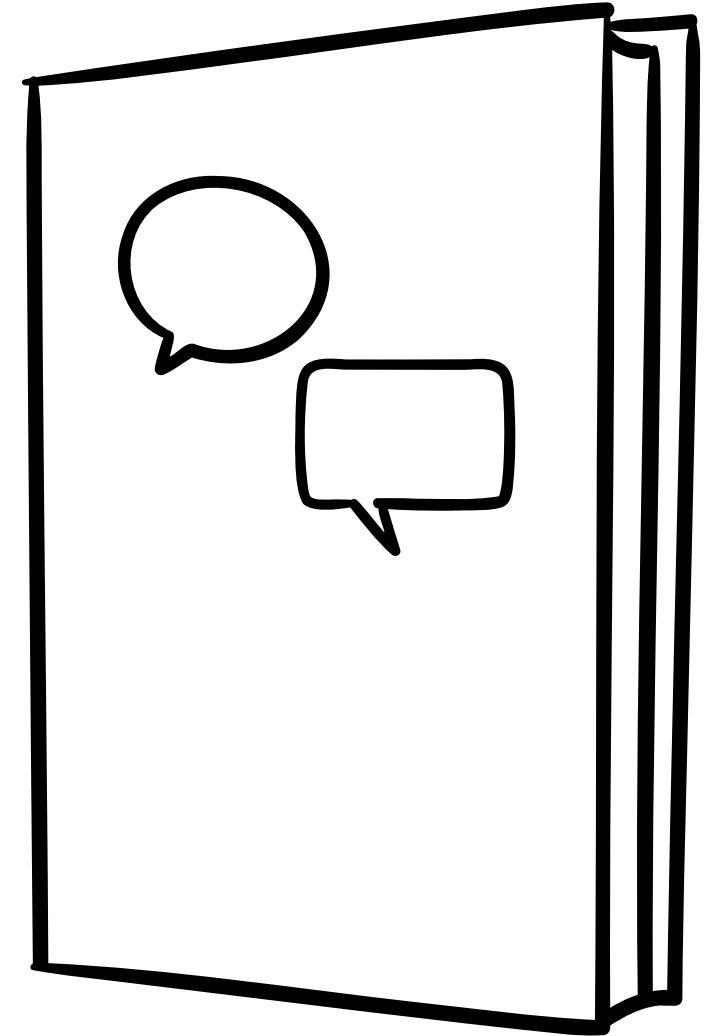
Translation

Text to Speech

Customizable Readability  
Access

Simplified Text

Barrier Reduced Note  
Taking





# Math Access

Make Math Accessible

Remove Barriers to  
Inclusive Math

Create Independent Math  
Learners

Visualize Math Problems

The screenshot displays the Equatio application interface, which is designed to make math accessible through multiple input methods. At the top center is the Equatio logo, a blue circle containing a white geometric pattern. Below the logo, on the left, is a 'voice input' section with a microphone icon and a red pause button. Below this is a text input field containing the phrase 'ty-two multiplied by forty'. In the center, a large blue-bordered box displays two linear equations:  $y = \frac{5}{7}x - 4$  and  $y = \frac{1}{7}x - 2$ . To the right of this box is a vertical list of statistical concepts: 'standard deviation of sample', 'standard deviation pooled', and 'standard deviation (binomial distribution)'. Below these is a 'Handwriting' section with a grid background showing the handwritten equation  $-48 = 6(v+2)$ . Below the handwriting section is a 'Math' section with icons for text, undo, redo, and delete, followed by the typed equation  $-48 = 6(v+2)$ . At the bottom of the interface is a toolbar with various math symbols and tools, including the Equatio logo,  $\Sigma$ ,  $\text{LaTeX}$ , a graphing icon, a pencil icon, a microphone icon, a mobile phone icon, a cube icon, a graphing icon, a summation icon, and a flask icon. On the far right of the toolbar are 'Edit Math' and 'Insert Math' buttons.

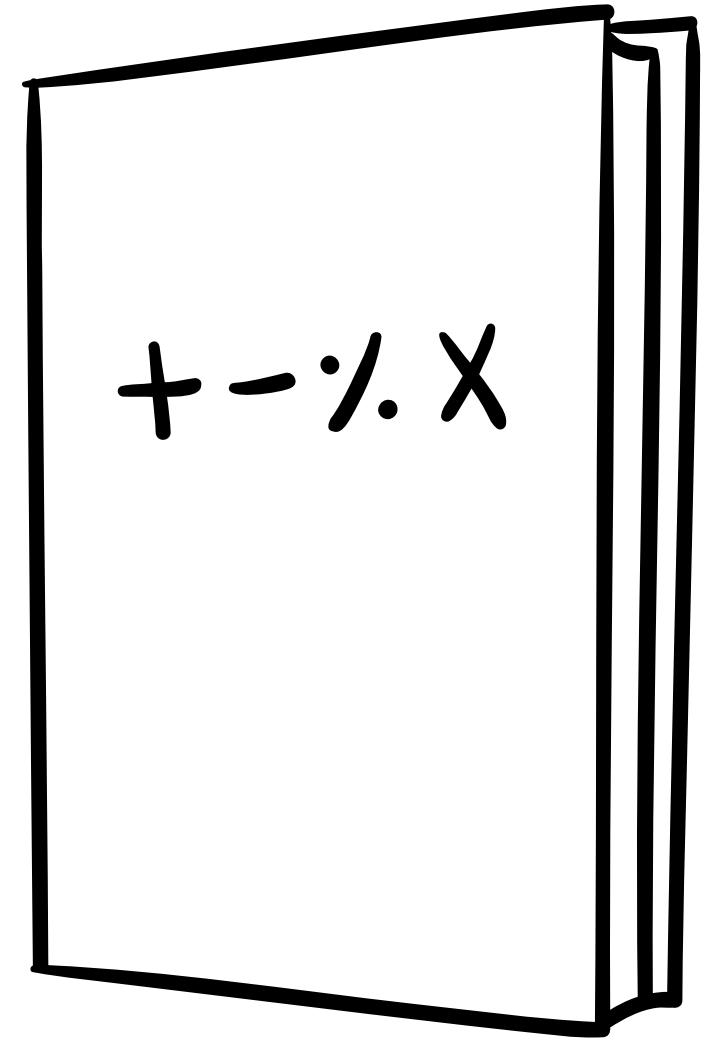
# Accessibility Features in Equatio

Speech Input

Screenshot Reader

Handwriting Recognition

Prediction and Equation  
Editor





# Bookshare

An online library of ebooks in formats like

DIGITAL  
TEXT

BRAILLE

AUDIO

# Who Qualifies?

Students with a  
print disability.





# Bookshare in the Classroom



## **Engagement**

Choice and Autonomy  
Relevance  
Inclusion



## **Representation**

Multiple Formats  
Customizable Display  
Dual Coding



## **Action & Expression**

Independence  
Increased Motivation  
Confidence Building

Thank You



@NM UDL



@nm\_udl



@NMudl1



@nmudlteam9570

[nmudlcoaches@crecnm.org](mailto:nmudlcoaches@crecnm.org)

<https://sites.google.com/crecnm.com/nmudl/home>