# Assistive Technology for Beginning Braille Readers

### Introductions

Who am I?

Who are you?



(picture from the movie Pretty in Pink of two characters in a computer lab)



What technology means to me...

What technology means to our students...

**FAMILY** 

LOVE

CONNECTION



(picture of two hands with tattoos of the words joy and strength) **ACCESS** 

VOICE

**EMPOWERMENT** 

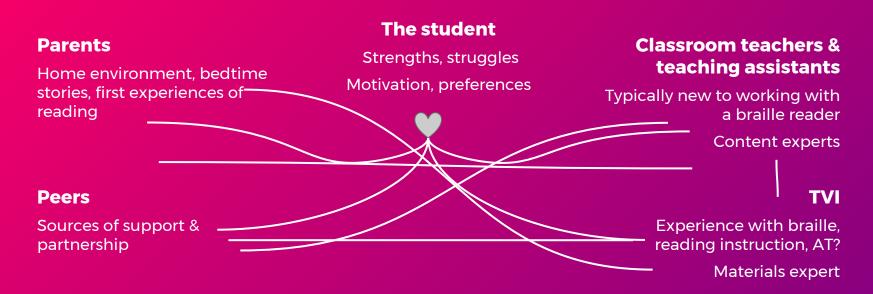
### A SYSTEMS ANALYSIS OF THE BEGINNING BRAILLE READER'S ENVIRONMENT







### THE BRAILLE READER'S INSTRUCTIONAL TEAM







#### **Phonemic Awareness**

Ability to manipulate segments/phonemes

#### **Phonics**

Sound+Symbols correspondence

#### **Fluency**

Reading Rate

#### Vocabulary

Knowledge of words & their meanings

### Comprehension

Constructing meaning from text

### \*Braille Contractions

200+symbols Rules of usage Discrimination

### BOOKS on BRAILLE READING INSTRUCTION

**Beginning with Braille** 

**Reading Connections** 

I-M-Able, Braille Literacy: A Functional Approach

**Enough to Know Better** 

**Guidelines & Games for Teaching Efficient Braille Reading** 

**Instructional Strategies for Braille Literacy** 

# RESOURCES for BRAILLE READING INSTRUCTION

Braille Fundamentals, Un's the One

**Building on Patterns** 

Mangold Basic Braille Program

Read Naturally

Wilson Reading System

The same curriculum used by the classroom teacher!

# CONSIDERATIONS FOR BRAILLE READING INSTRUCTION

Explicit vs. incidental methods
Introduction of contractions
Guided reading integration
Paths to Literacy



# THE ROLE OF ASSISTIVE TECHNOLOGY IN BEGINNING BRAILLE READING

For most people, technology makes things easier. For people with disabilities, technology makes things possible.

~ Mary Pat Radabaugh, IBM

# Remember your TEAM & your TASK when choosing your TOOLS

Students and their devices do NOT exist in a vacuum

Support is one of the key factors of progress

Consider ease of use, learning curve of device

Consider experience & engagement of team (& lack thereof)

Consider strengths and struggles the student brings to both the task and the tool

### PERKINS BRAILLE WRITER



(Picture of a Perkins Braillewriter with a Daredevil action figure on top)

## Perkins SMÄRT Brailler

Auditory input
Visual input
Tactual input
\*USB port for saving items

https://www.youtube.com/watch?v=pl5qV2NdF0M

What are some advantages/disadvantages of this tool?

Which members of the team would it support? What's an example of a task using this tool?

# Logan Braille Coach

Endlessly customizable braille flashcards
Can be adapted to any level of student
Headphone jack for private use
Perfect for an independent activity
Easy to use by adults and children alike!
Additional tags can be purchased
Best kept secret!!



Picture of boy using device

What are some advantages/disadvantages of this tool?

Which members of the team would it support? What's an example of a task using this tool?



# Mountbatten Braillewriter...aka Braille Whisperer

Tactual, auditory, & visual feedback (through amazing app!)

Keyboard for non braille users to type messages and/or classwork

Nemeth, music, & more!

Easy to press keys for little fingers

Many beginning notetaker functions

Intro Video

**Cute Video** 

Mimic Video

What are some advantages/disadvantages of this tool?

Which members of the team would it support? What's an example of a task using this tool?

# Refreshable Braille Displays

Must either be paired with phones, tablets, or computers using screen reader software

Example: Braille Study Mode with JAWS screen reader

Modular, mainstream

Multiple advantages to starting young!

Examples include VarioUltra, HIMS Edge, Focus 40-->ElBraille, Brailliant, and more

What are some advantages/disadvantages of this tool?

Which members of the team would it support? What's an example of a task using this tool?

## Braille Notetakers

Proprietary-made specifically for braille users
Stand-alone device with multiple capabilities
Examples include Pronto, BrailleSense Polaris,
Braillenote Touch, APH Braille Plus and more
Some have visual input, some do not
Student Review

What are some advantages/disadvantages?
Which members of the team does this device support?

What's an example of a task using this device?



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