
ENSURING MEANINGFUL ACCESS FOR STUDENTS WITH CVI

Presenter Background

Ensuring Meaningful Access for Students with CVI

Stephanie Steffer is the Business Director at CViConnect and one of the founding teachers for the platform. Before this role, Stephanie was Teacher Consultant serving children with visual impairments in Michigan for ten years. She earned her degree from Eastern Michigan University for Special Education for the Visually Impaired and Early Childhood Education. Additionally, Stephanie is a Perkins-Roman CVI Range Endorsed professional. Beyond her role as a TCVI, Stephanie has been the Program Coordinator for the Visually Impaired Youth Camp at Lions Bear Lake Camp for 11 years.

WHO IS HERE TODAY?

Please answer the poll as it appears on your screen.

ENSURING MEANINGFUL ACCESS FOR STUDENTS WITH CVI

➤ Learning Objectives:

- When given an activity, participants will identify what CVI Phase it is most appropriate for.
- When given an activity within each CVI phase and a student profile, participants will identify which activities are most appropriate for a warm-up and for access to curriculum.
- When given an IEP goal, with a visual learning modality, participants identify factors to consider when creating visual targets.



ENSURING MEANINGFUL ACCESS FOR STUDENTS WITH CVI

➤ Learning Objectives:

- When given an activity, participants will identify what CVI Phase it is most appropriate for.
- When given an activity within each CVI phase and a student profile, participants will identify which activities are most appropriate for a warm-up and for access to curriculum.
- When given an IEP goal, with a visual learning modality, participants identify factors to consider when creating visual targets.



UNDERSTAND IDEA

Ensuring Meaningful Access for Students with CVI

**Eligibility Determinations for Children Suspected of Having a Visual Impairment
Including Blindness under the Individuals with Disabilities Education Act**

CEREBRAL VS CORTICAL

Ensuring Meaningful Access for Students with CVI

CEREBRAL VS CORTICAL

Ensuring Meaningful Access for Students with CVI

Cerebral

- encompasses **all forms of visual processing disorders** including those that have been associated with visual perceptual difficulties (Jan, 2011 as cited in Roman, 2018)

CEREBRAL VS CORTICAL

Ensuring Meaningful Access for Students with CVI

Cerebral

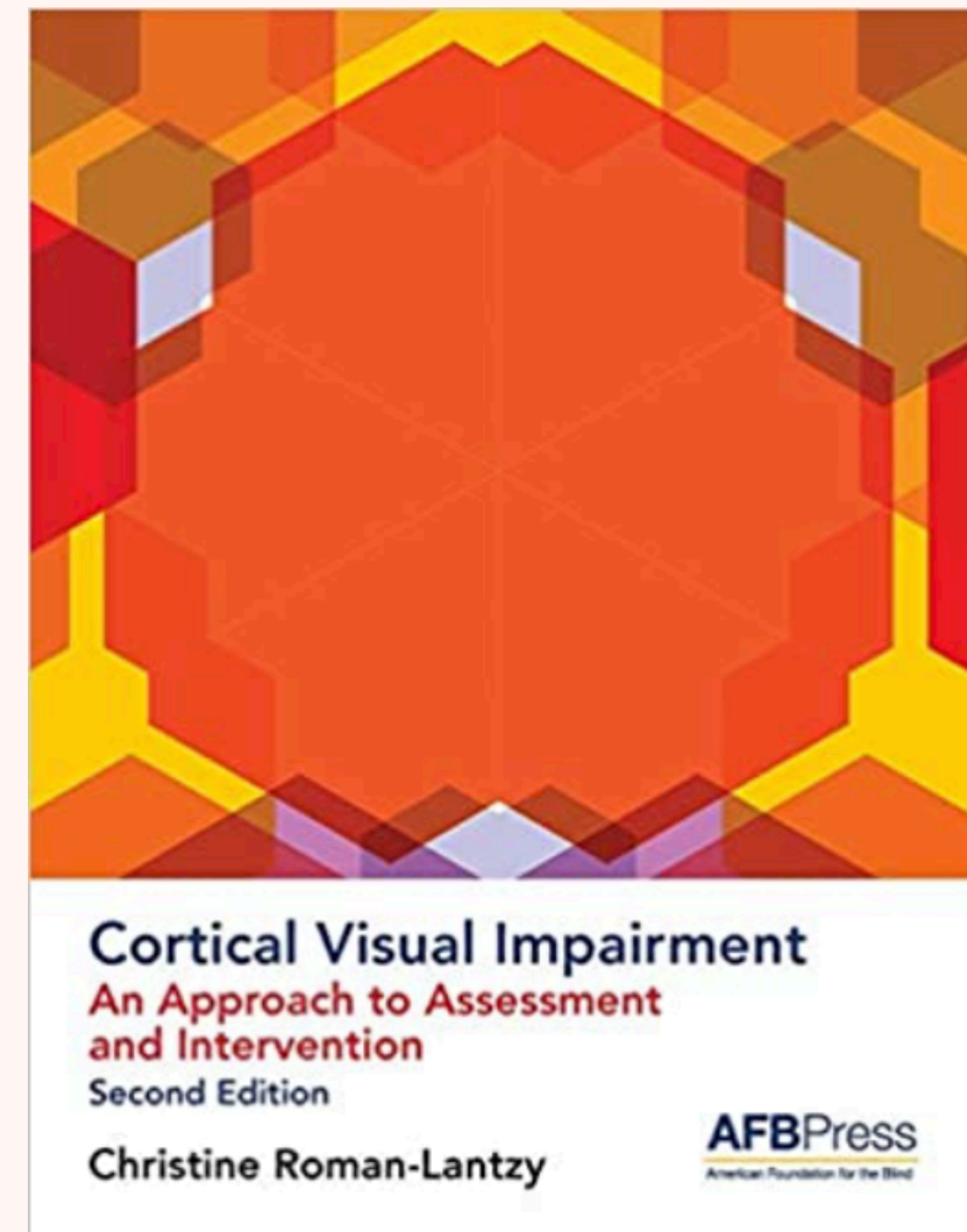
- encompasses **all forms of visual processing disorders** including those that have been associated with visual perceptual difficulties (Jan, 2011 as cited in Roman, 2018)

Cortical

- brain damage or conditions that affect the part of the brain known as the **posterior visual system** (Huo, Burden, Hoyt, & Good, 1999 as cited in Roman, 2018)

THREE ELEMENTS

Ensuring Meaningful Access for Students with CVI

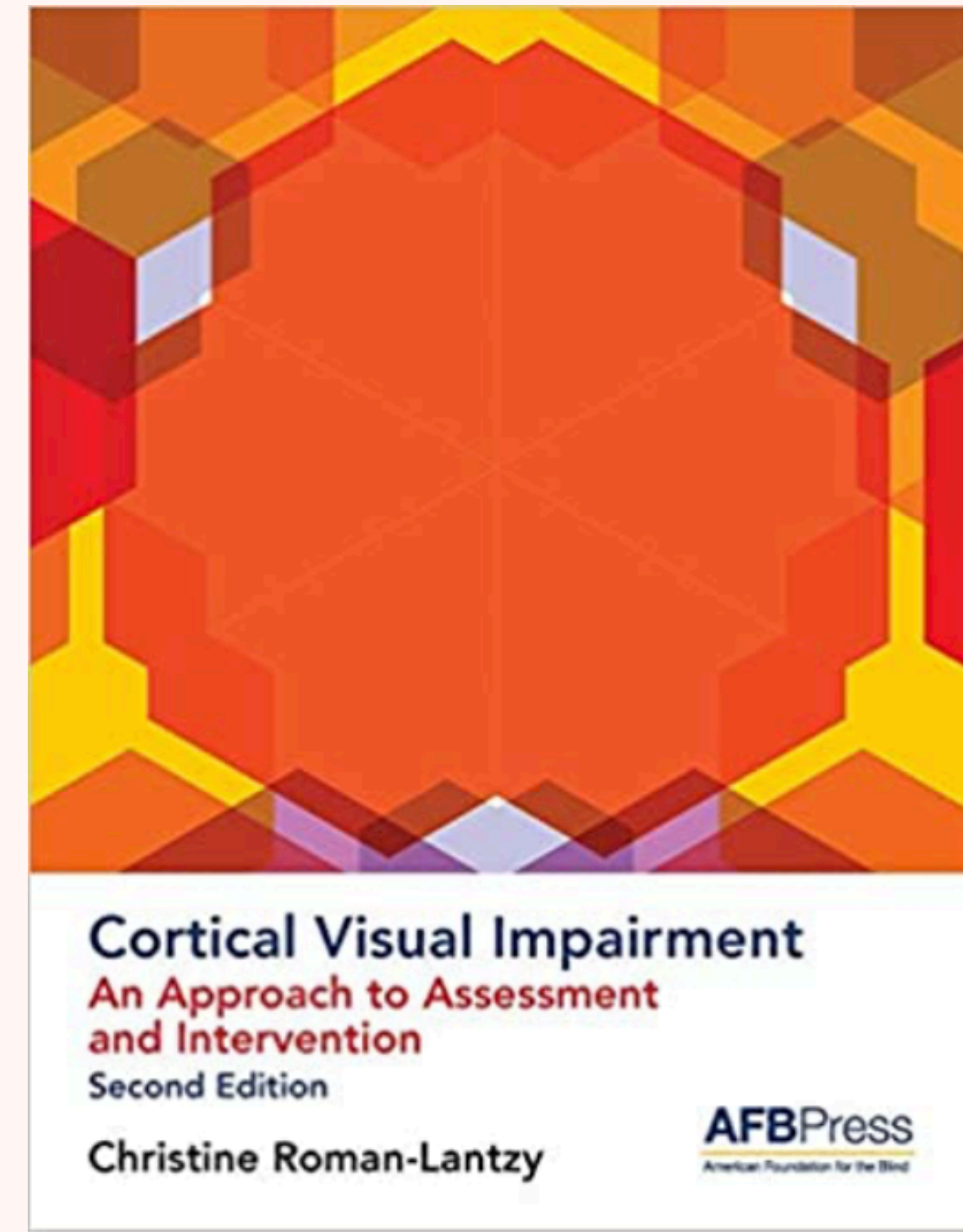


Three Elements of Identification for CVI from Roman-Lantzy (2018)

THREE ELEMENTS

Ensuring Meaningful Access for Students with CVI

1. An eye exam that does not explain the individual's functional use of vision

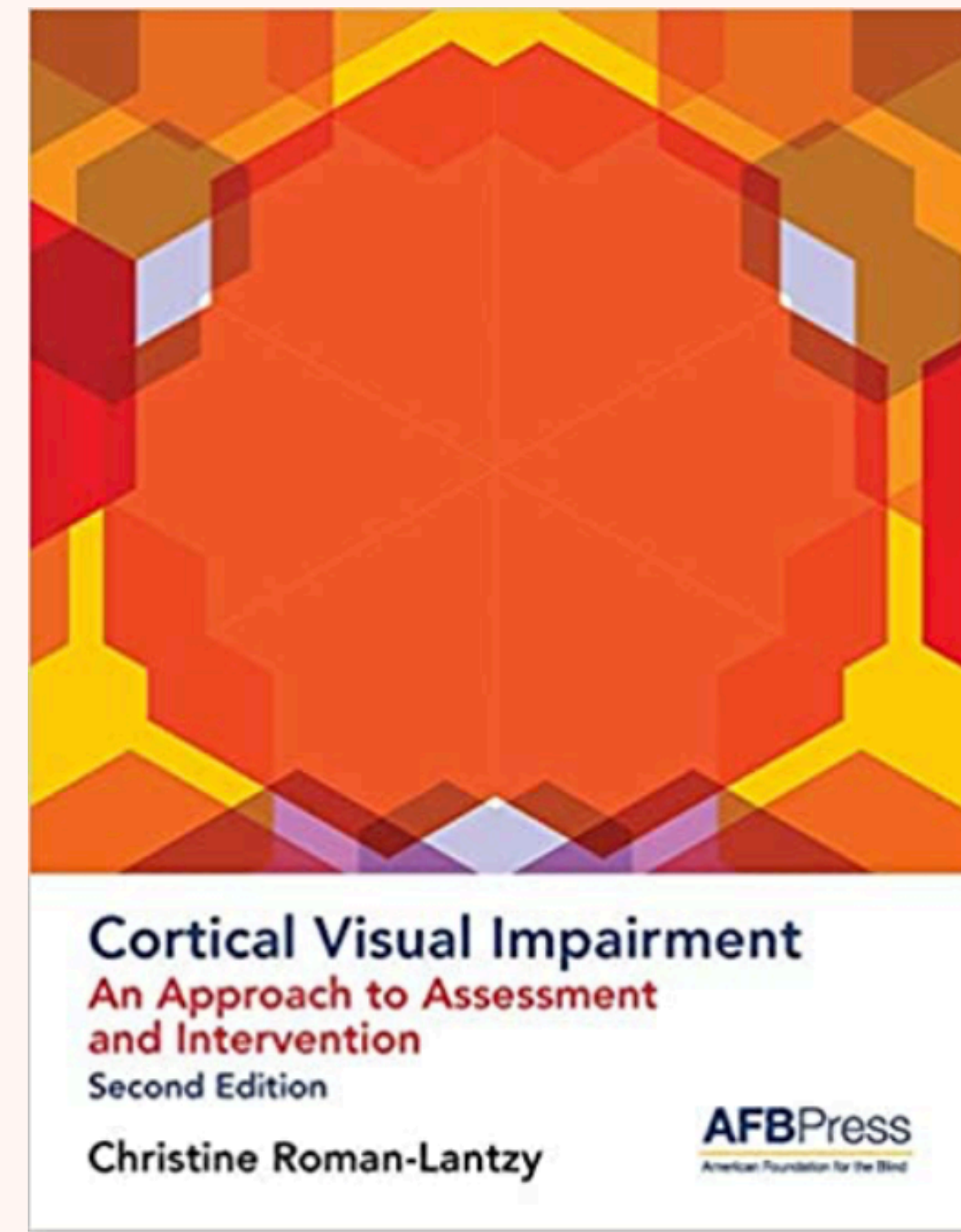


Three Elements of Identification for CVI from Roman-Lantzy (2018)

THREE ELEMENTS

Ensuring Meaningful Access for Students with CVI

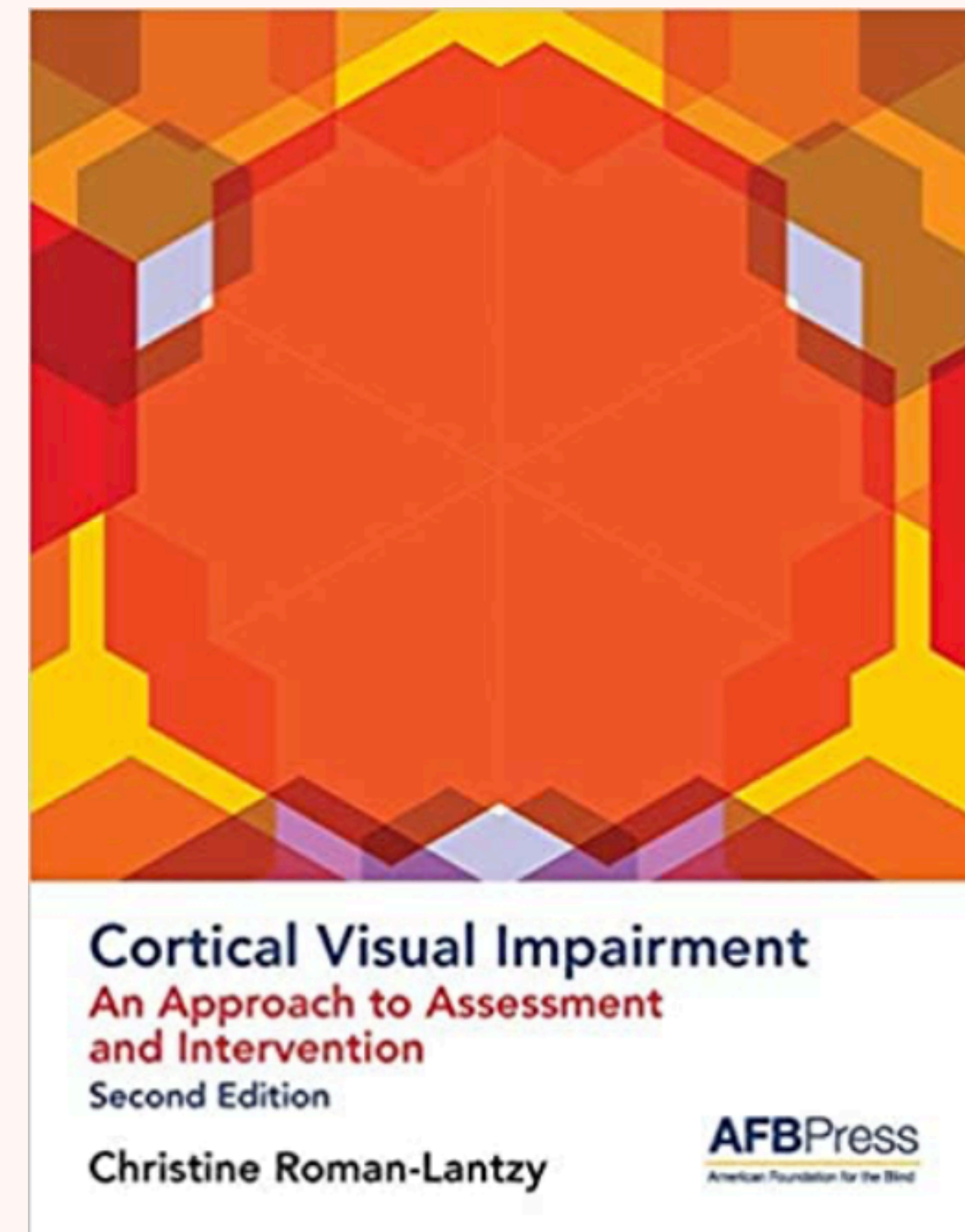
- 1. An eye exam that does not explain the individual's functional use of vision**
- 2. A history of a brain condition, trauma, or damage associated with CVI**



THREE ELEMENTS

Ensuring Meaningful Access for Students with CVI

- 1. An eye exam that does not explain the individual's functional use of vision**
- 2. A history of a brain condition, trauma, or damage associated with CVI**
- 3. The presence of certain visual and behavioral characteristics**



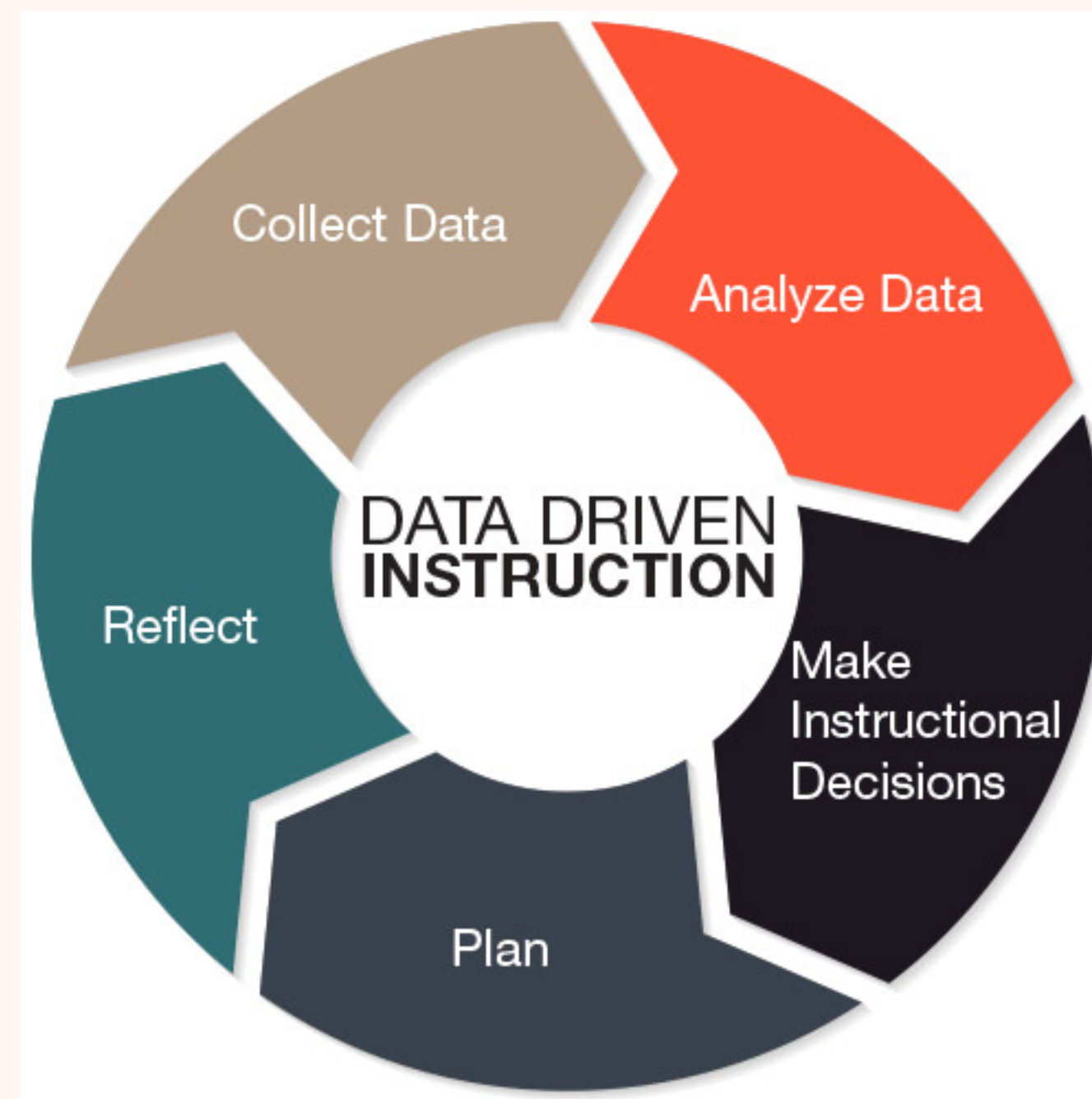
Three Elements of Identification for CVI from Roman-Lantzy (2018)

**“THE WORK OF THOSE WHO TEACH CHILDREN WITH
CVI IS TO SYSTEMATICALLY PROVIDE ADAPTATIONS
AND SPECIFICALLY DESIGN INSTRUCTION THAT
WILL DEVELOP AND BROADEN THE CHILD’S
REPRESENTATIONS”**

Roman 2018

DATA DRIVEN INSTRUCTION

Ensuring Meaningful Access for Students with CVI



THE CVI RANGE

Ensuring Meaningful Access for Students with CVI

- Functional Vision Evaluation
- 3 parts
 - Observation
 - Parent Interview
 - Direct assessment

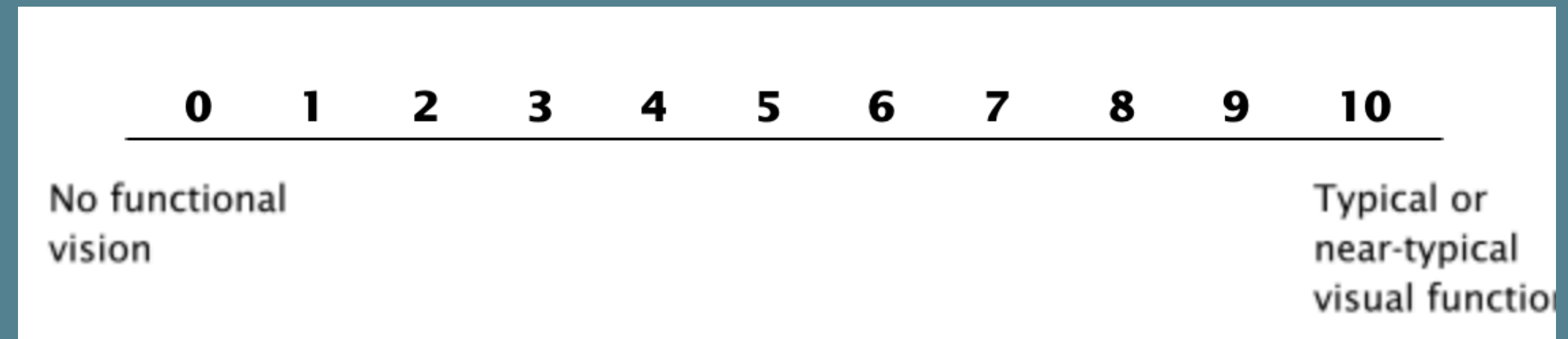
CVI Range 1–2: Student functions with minimal visual response

O	I	D	R	+	+/-	-	
							May localize but no appropriate fixations on objects or faces
							Consistently attentive to lights or perhaps fans
							Prolonged periods of latency in visual tasks
							Responds only in strictly controlled environment
							Objects viewed are a single color

THE CVI RANGE

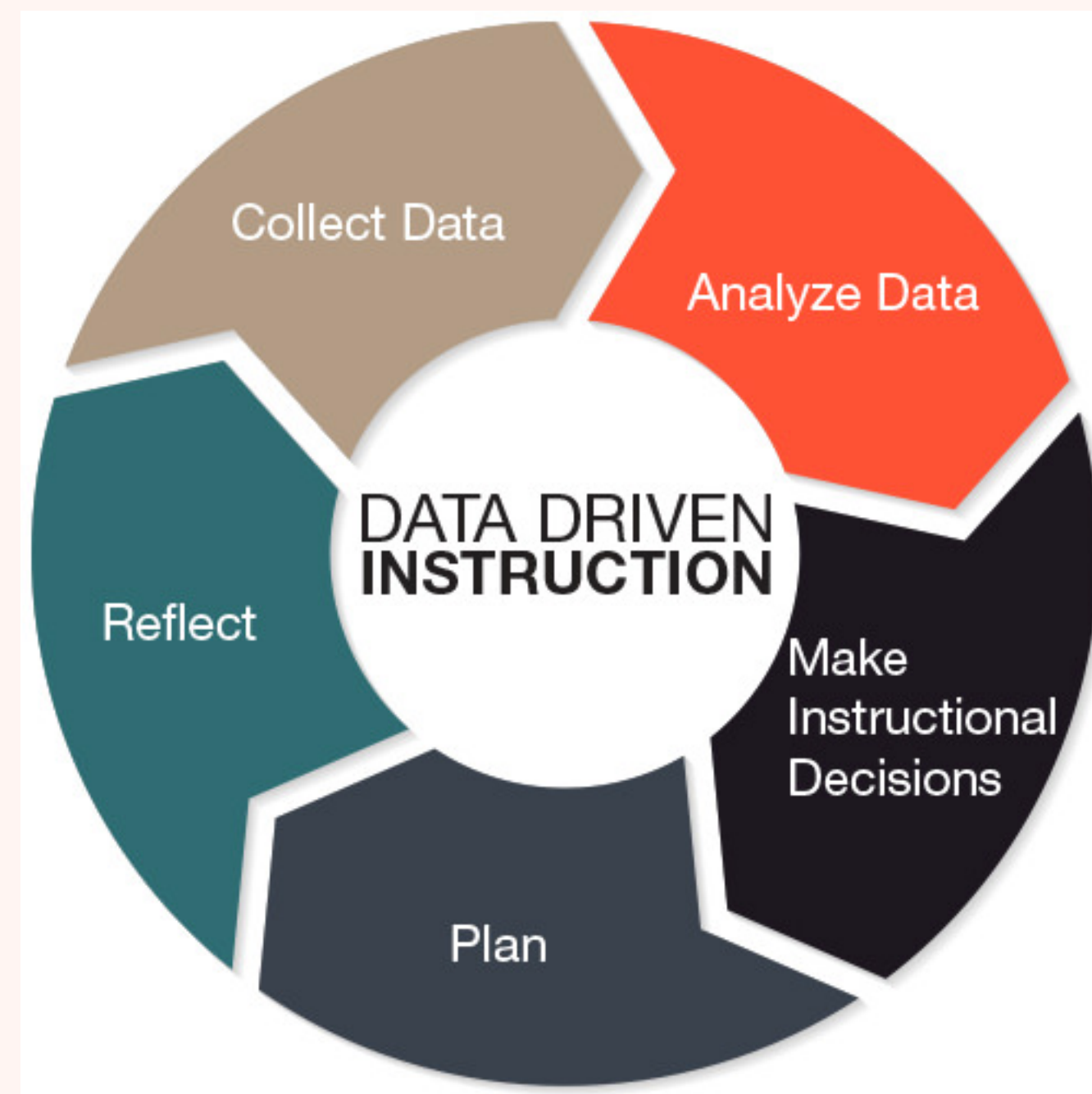
Ensuring Meaningful Access for Students with CVI

- Functional Vision Evaluation
- 3 parts
 - Observation
 - Parent Interview
 - Direct assessment



DATA DRIVEN INSTRUCTION

Ensuring Meaningful Access for Students with CVI



THE CVI RANGE

Ensuring Meaningful Access for Students with CVI

Rating II: Within-CVI Characteristics Assessment

Determine the level of CVI present or resolved in the 10 categories below and add to obtain a total score.

☒ Show Details

		Not Specified	Not Resolved 0.0	0.25	Resolving 0.5	0.75	Resolved 1.0	Comment
1	Color	<input checked="" type="radio"/>	<input type="radio"/> Attends to a single, preferred color	<input type="radio"/> Preferred color dominates, additional 1-2 colors may also elicit /promote visual attention	<input type="radio"/> Highly saturated colors, fluorescent colors promote visual attention Specific color preference is fading Color highlighting of salient 3-D or 2-D features is necessary	<input type="radio"/> Color highlighting of materials or environment is occasionally necessary	<input type="radio"/> Color is no more important for visual attention than for other individuals of the same age	<div></div>
2	Movement	<input checked="" type="radio"/>	<input type="radio"/> Attends only to objects that are moving or that have reflective properties May notice ceiling fan	<input type="radio"/> Movement is necessary to elicit attention and almost always necessary to maintain visual attention May be distracted by unintended movement at near	<input type="radio"/> Movement is necessary to elicit attention but not to sustain visual attention May begin to notice the movement of people at distances up to 8-10 feet away May be distracted by unintended movement at distances up to 8 feet away	<input type="radio"/> Movement occasionally necessary to elicit visual attention	<input type="radio"/> Movement is not necessary to elicit or hold visual attention Movement will alert the individual but not "captivate"	<div></div>
3	Latency	<input checked="" type="radio"/>	<input type="radio"/> Prolonged periods of latency each time an object is	<input type="radio"/> Latency is frequent but slightly decreases during periods of consistent viewing	<input type="radio"/> Latency occurs about half of the time the individual is attempting to visually attend Latency may be a sign of visual fatigue or over stimulation	<input type="radio"/> Latency occurs primarily when the individual is hungry, tired, over stimulated, post seizure. Latency	<input type="radio"/> No latency in visual response. The individual visually regards a target without	<div></div>

m.Care - © 2021 LifeScience Technologies, LLC. All rights reserved.

THE CVI RANGE

Ensuring Meaningful Access for Students with CVI

CVI Range Rating I score is the child's present level

CVI Range Rating II is the child's need for accommodations

Rating II: Within-CVI Characteristics Assessment

Determine the level of CVI present or resolved in the 10 categories below and add to obtain a total score.

☒ Show Details

		Not Specified	Not Resolved 0.0	0.25	Resolving 0.5	0.75	Resolved 1.0	Comment
1	Color	<input checked="" type="radio"/>	<input type="radio"/> Attends to a single, preferred color	<input type="radio"/> Preferred color dominates, additional 1-2 colors may also elicit /promote visual attention	<input type="radio"/> Highly saturated colors, fluorescent colors promote visual attention Specific color preference is fading Color highlighting of salient 3-D or 2-D features is necessary	<input type="radio"/> Color highlighting of materials or environment is occasionally necessary	<input type="radio"/> Color is no more important for visual attention than for other individuals of the same age	<div></div>
2	Movement	<input checked="" type="radio"/>	<input type="radio"/> Attends only to objects that are moving or that have reflective properties May notice ceiling fan	<input type="radio"/> Movement is necessary to elicit attention and almost always necessary to maintain visual attention May be distracted by unintended movement at near	<input type="radio"/> Movement is necessary to elicit attention but not to sustain visual attention May begin to notice the movement of people at distances up to 8-10 feet away May be distracted by unintended movement at distances up to 8 feet away	<input type="radio"/> Movement occasionally necessary to elicit visual attention	<input type="radio"/> Movement is not necessary to elicit or hold visual attention Movement will alert the individual but not "captivate"	<div></div>
3	Latency	<input checked="" type="radio"/>	<input type="radio"/> Prolonged periods of latency each time an object is	<input type="radio"/> Latency is frequent but slightly decreases during periods of consistent viewing	<input type="radio"/> Latency occurs about half of the time the individual is attempting to visually attend Latency may be a sign of visual fatigue or over stimulation	<input type="radio"/> Latency occurs primarily when the individual is hungry, tired, over stimulated, post seizure. Latency	<input type="radio"/> No latency in visual response. The individual visually regards a target without	<div></div>

m.Care - © 2021 LifeScience Technologies, LLC. All rights reserved.

THE CVI RANGE

Ensuring Meaningful Access for Students with CVI

- **Phase I (Range 0-3): the goal is to build consistent visual behavior**
- **Phase II (Range 3+-7): the goal is to integrate vision with function**
- **Phase III (Range 7+-10): the goal is to facilitate refinement of the characteristics**

CVI CHARACTERISTICS IN PHASE I

Ensuring Meaningful Access for Students with CVI

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

CVI CHARACTERISTICS IN PHASE I

Ensuring Meaningful Access for Students with CVI

Goal: Building Visual Behavior

CVI Progress Chart-

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

PHASE I

Ensuring Meaningful Access for Students with CVI

- **Single color (learner's preferred color)**
- **Movement (or movement properties)**
- **Familiar object**
- **Paired with light**
- **Extend from eye to hand**



PHASE I

Ensuring Meaningful Access for Students with CVI

- **Single color (learner's preferred color)**
- **Movement (or movement properties)**
- **Familiar object**
- **Paired with light**
- **Extend from eye to hand**



**“SOME STUDENTS WITH CVI MAY SEEM TO ENJOY
LOOKING AT SCENES OUTSIDE THE WINDOW OR A
NOVEL PICTURES IN BOOKS. BUT IT IS CRITICAL TO
RECOGNIZE THAT LOOKING AT A TARGET CANNOT
BE EQUATED WITH INTERPRETING WHAT IS SEEN”**

Roman 2018

CVI CHARACTERISTICS IN PHASE II

Ensuring Meaningful Access for Students with CVI

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

CVI CHARACTERISTICS IN PHASE II

Ensuring Meaningful Access for Students with CVI

Goal: Integrating vision with function

CVI Progress Chart Early Phase II-

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

CVI CHARACTERISTICS IN PHASE II

Ensuring Meaningful Access for Students with CVI

Goal: Integrating vision with function

CVI Progress Chart Early Phase II-

CVI Progress Chart Late Phase II-

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

PHASE II

Ensuring Meaningful Access for Students with CVI

PHASE II

Ensuring Meaningful Access for Students with CVI



PHASE II

Ensuring Meaningful Access for Students with CVI

EARLY

- **Use characteristics from Phase I**
- **Can view more than one color**
- **Movement (or movement properties) to initiate and occasionally sustain attention**
- **3D preferred may begin to demonstrate eye to object contact with photograph of familiar toy**
- **Lighting paired with target**



PHASE II

Ensuring Meaningful Access for Students with CVI

EARLY

- **Use characteristics from Phase I**
- **Can view more than one color**
- **Movement (or movement properties) to initiate and occasionally sustain attention**
- **3D preferred may begin to demonstrate eye to object contact with photograph of familiar toy**
- **Lighting paired with target**



PHASE II

Ensuring Meaningful Access for Students with CVI

EARLY

- Use characteristics from Phase I
- Can view more than one color
- Movement (or movement properties) to initiate and occasionally sustain attention
- 3D preferred may begin to demonstrate eye to object contact with photograph of familiar toy
- Lighting paired with target



LATE

- Highly saturated colors may begin to use color highlighting
- Simple realistic 2-dimensional images
- Movement continues to be important to initiate
- Lighted targets or Backlit

WHAT DO YOU SEE?

2-Dimensional Image Assessment

Matt Tiejten presents this visual and explains the progression:

- **Color Photograph**
- **Realistic Color**
- **Abstract Color**
- **Realistic Black and White**
- **Abstract Black and White**

With input from Lotfi Merabet

The progression from object, to photograph, to illustrations, to black and white line drawings results in the increasing “impoverishment” of the lower order features. (Farrah, 93)

Real Object



Color
Luminance cues
Visual texture
Actual size
Salient features
Context

Photograph



Color
Luminance cues
Visual texture
Salient features

Illustration



Color
Salient features

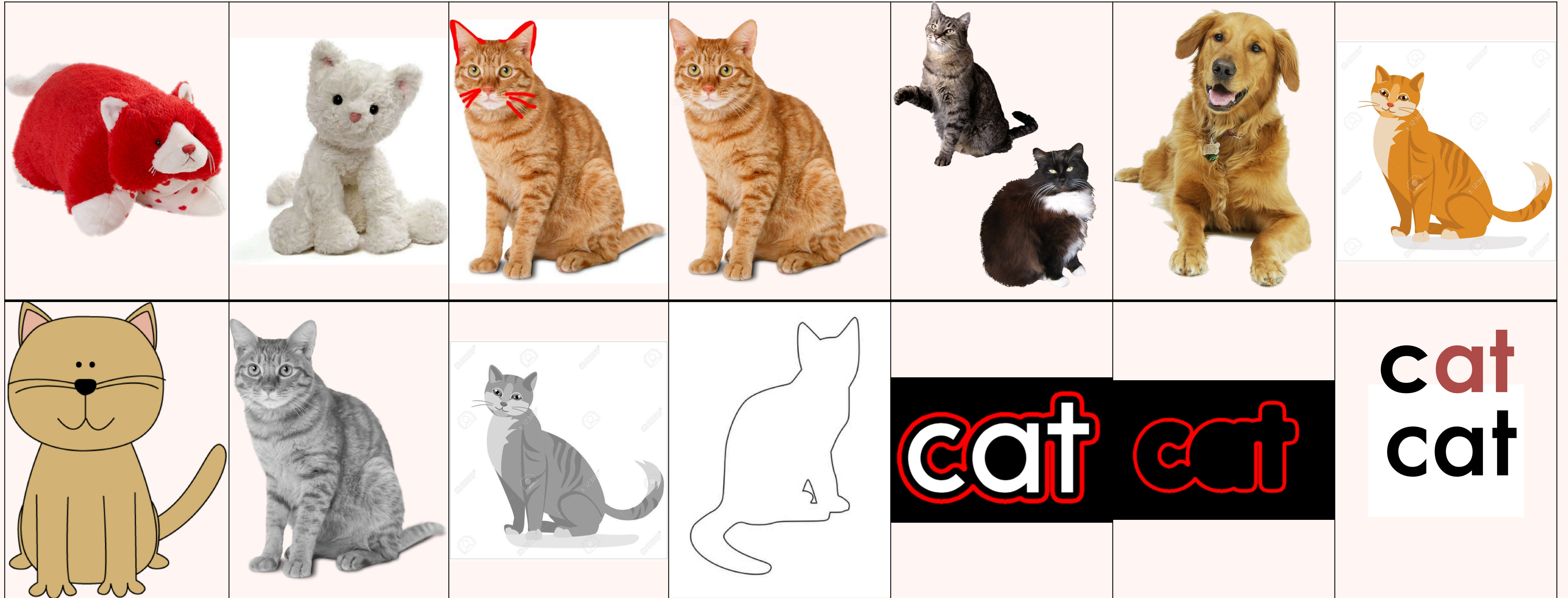
Black and white



Salient features

IMAGE SELECTION

Ensuring Meaningful Access for Students with CVI



CVI CHARACTERISTICS IN PHASE III

Ensuring Meaningful Access for Students with CVI

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

CVI CHARACTERISTICS IN PHASE III

Ensuring Meaningful Access for Students with CVI

Goal: Refinement of CVI Characteristics

CVI Progress Chart Phase III-

Roman-Lantzy, C. (2018). Cortical Visual Impairment: An Approach to Assessment and Intervention. 2nd ed., New York, NY: AFB Press.

CVI Phases from Roman-Lantzy

PHASE III

Ensuring Meaningful Access for Students with CVI

- **Color highlighting**
- **Movement not required at near**
- **Symbol books and pictures regarded**
- **Novel objects/images discriminated based on salient features**
 - **Comparative thought**
- **Backlit**

SALIENT FEATURES

Ensuring Meaningful Access for Students with CVI

It's a elephant

But why?

How did you know?

Salient Feature Dictionary

**[https://civicollaborative.wixsite.com/
salientfeatures](https://civicollaborative.wixsite.com/salientfeatures)**



SALIENT FEATURES

Ensuring Meaningful Access for Students with CVI

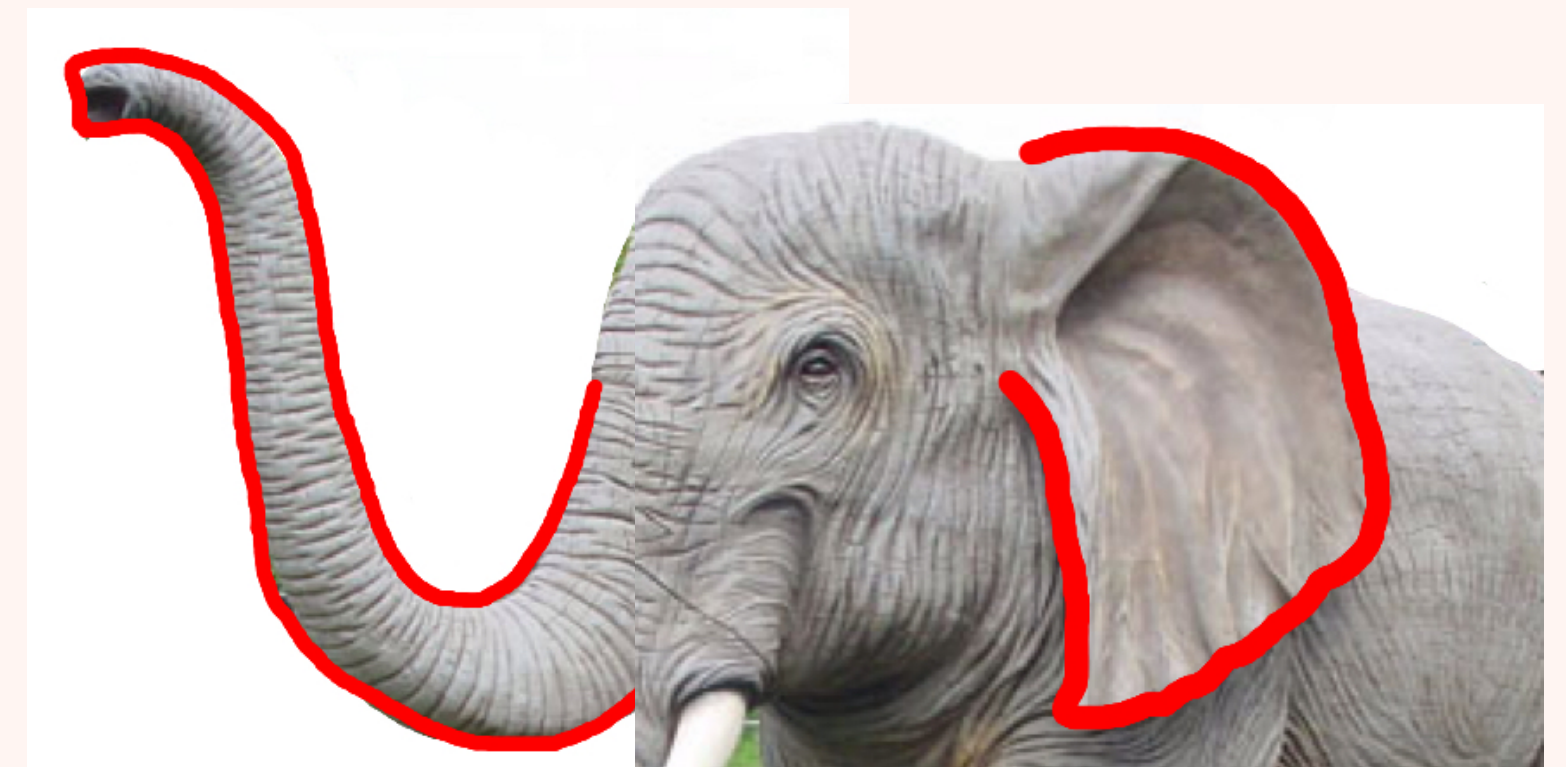
It's a elephant

But why?

How did you know?

Salient Feature Dictionary

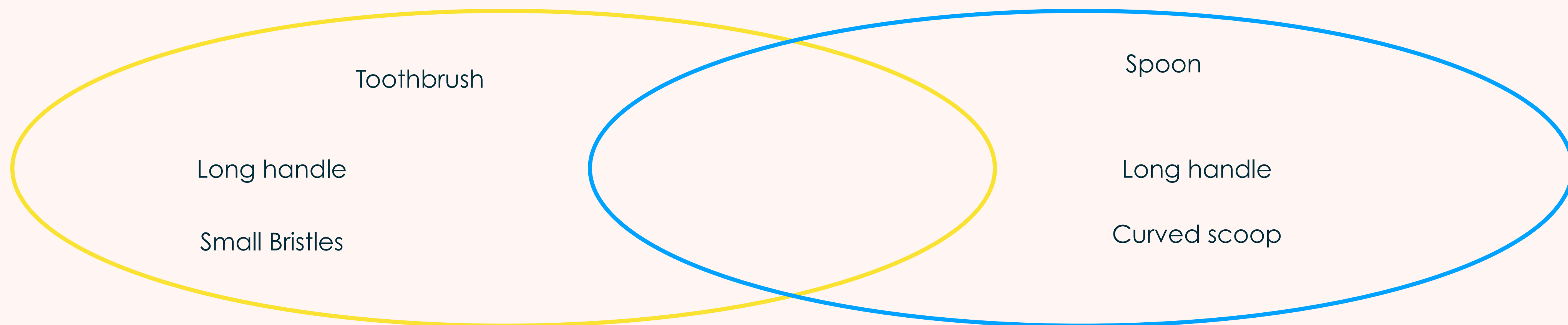
**[https://cvicollaborative.wixsite.com/
salientfeatures](https://cvicollaborative.wixsite.com/salientfeatures)**



COMPARATIVE THOUGHT

Ensuring Meaningful Access for Students with CVI

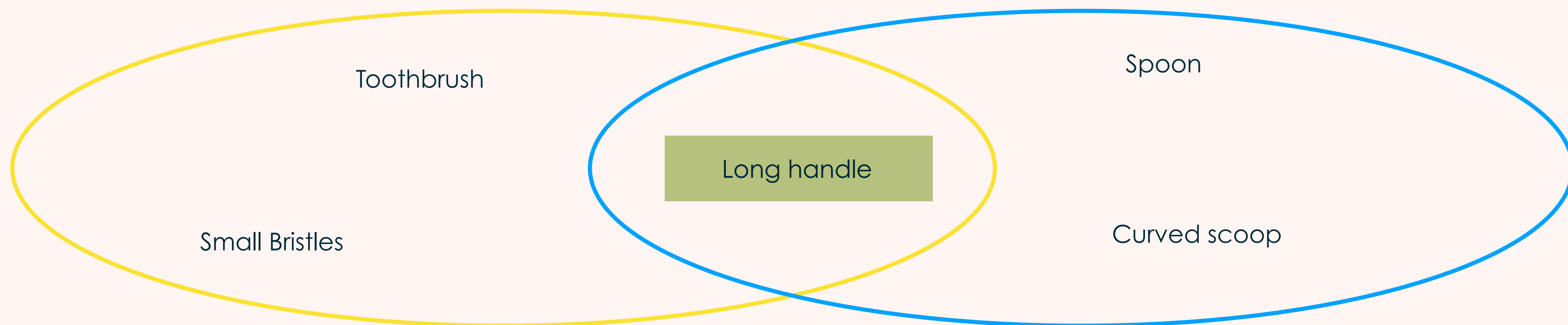
- **Compare and contrast familiar targets for the child**
- **Build on the child's thought**
- **Venn diagram**



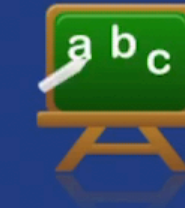
COMPARATIVE THOUGHT

Ensuring Meaningful Access for Students with CVI

- **Compare and contrast familiar targets for the child**
- **Build on the child's thought**
- **Venn diagram**



Your activity is ready to begin. Please note the following instructions:



present iPad without prompt

After 15 seconds, say "This is a picture of your toothbrush, It has a long thin handle and small bristles"

Wait without further prompts

After an additional 15 seconds draw the long handle and say "here is the long handle"

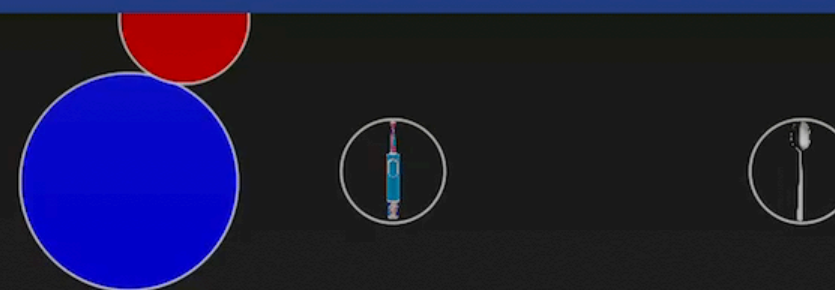
Wait another 15 seconds without additional prompts

Say "At the top are the small bristles in the shape of a circle" then draw a circle around the bristles

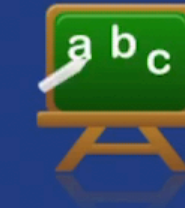
Wait another 15 seconds without additional prompts

Your toothbrush is similar to your spoon. They both have long thin handles but your toothbrush has bristles and your spoon has a curved scoop at the top.

OK



Your activity is ready to begin. Please note the following instructions:



present iPad without prompt

After 15 seconds, say "This is a picture of your toothbrush, It has a long thin handle and small bristles"

Wait without further prompts

After an additional 15 seconds draw the long handle and say "here is the long handle"

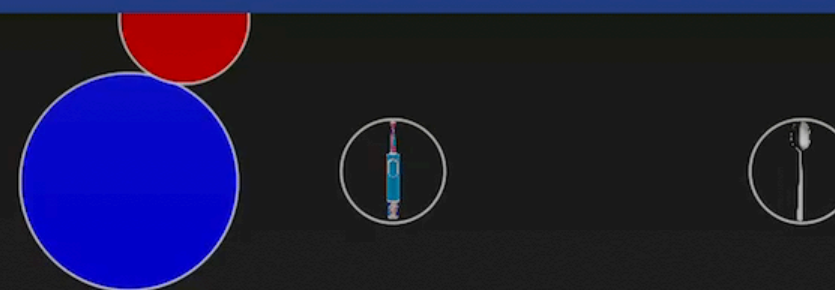
Wait another 15 seconds without additional prompts

Say "At the top are the small bristles in the shape of a circle" then draw a circle around the bristles

Wait another 15 seconds without additional prompts

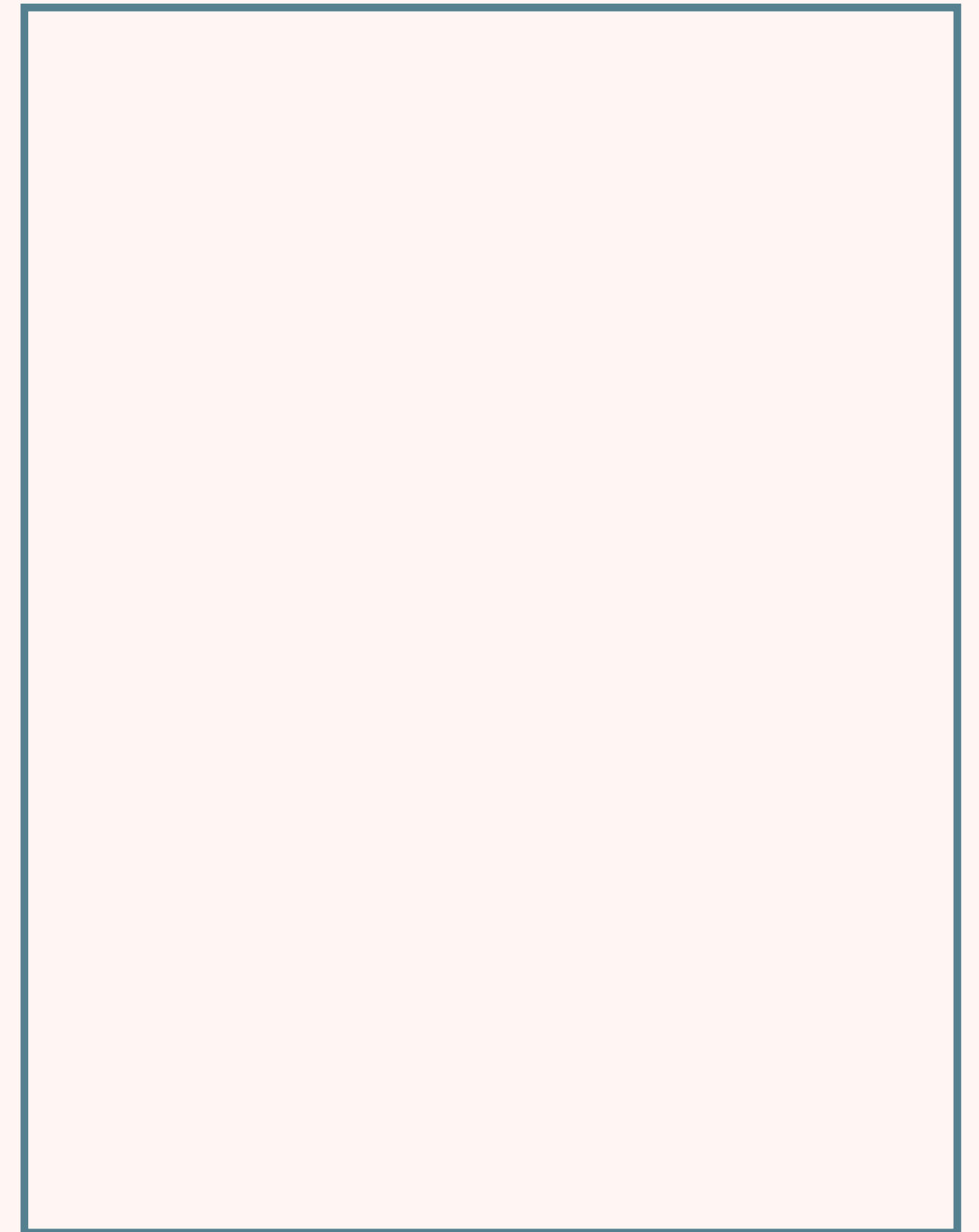
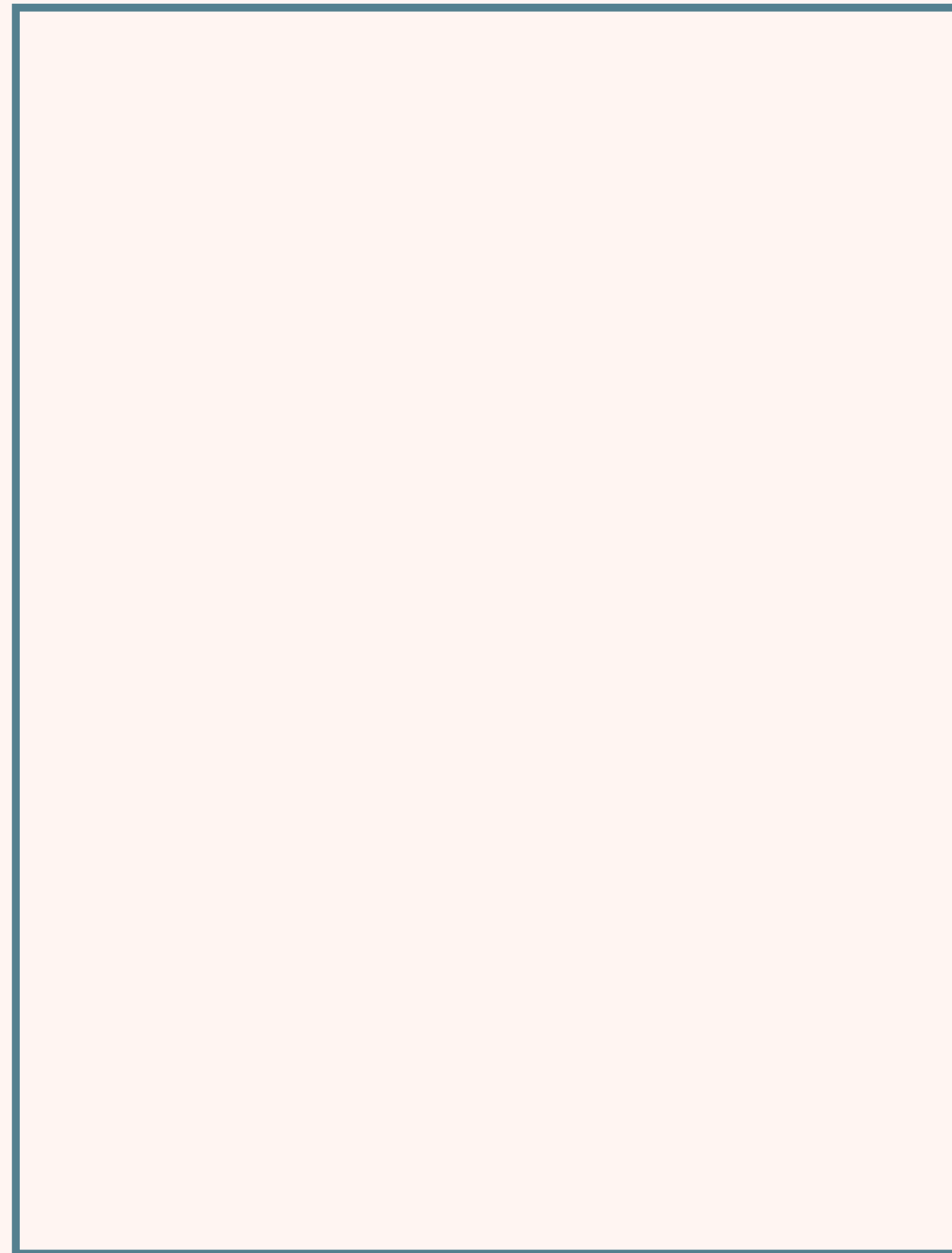
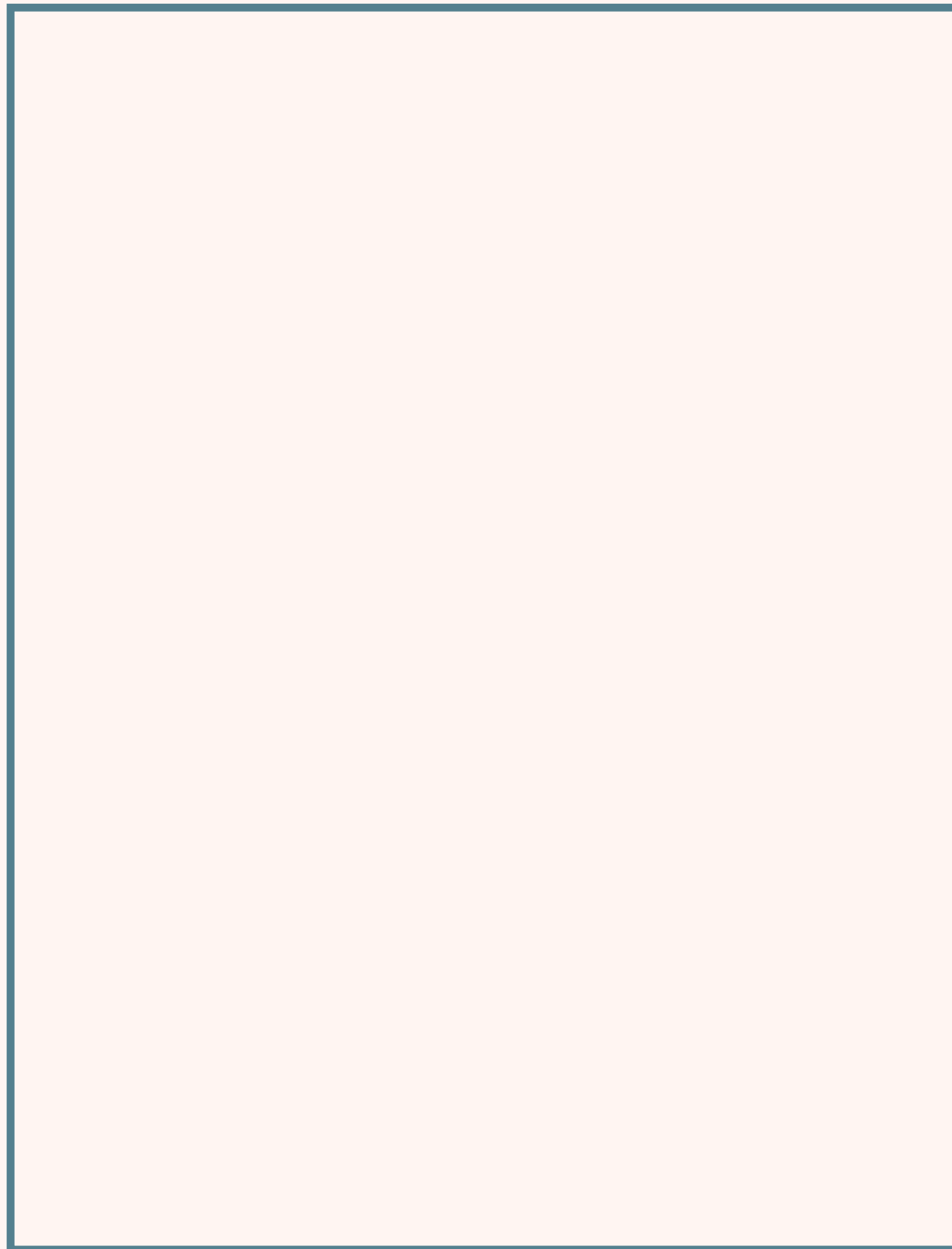
Your toothbrush is similar to your spoon. They both have long thin handles but your toothbrush has bristles and your spoon has a curved scoop at the top.

OK



WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

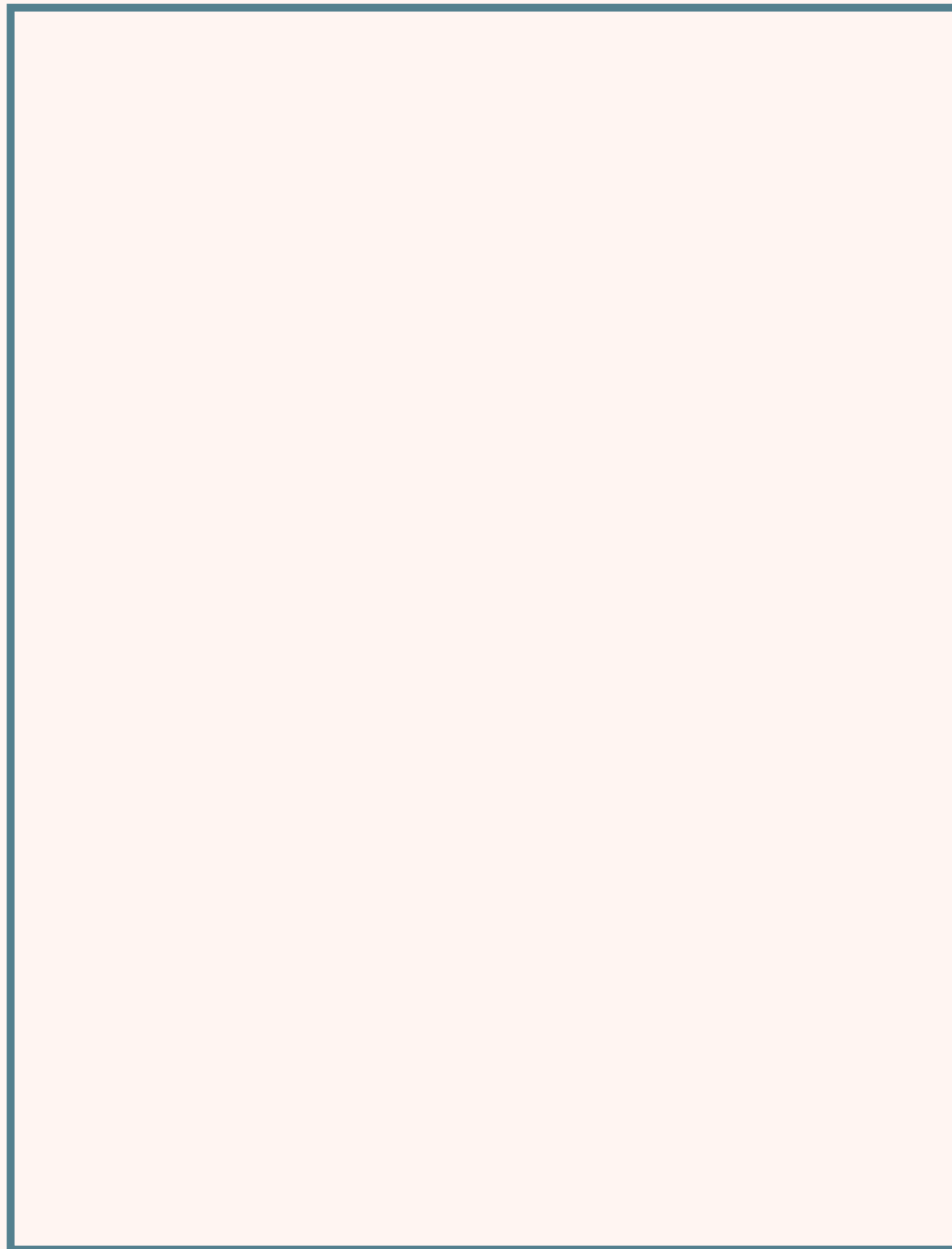


CVI Phases from Roman-Lantzy

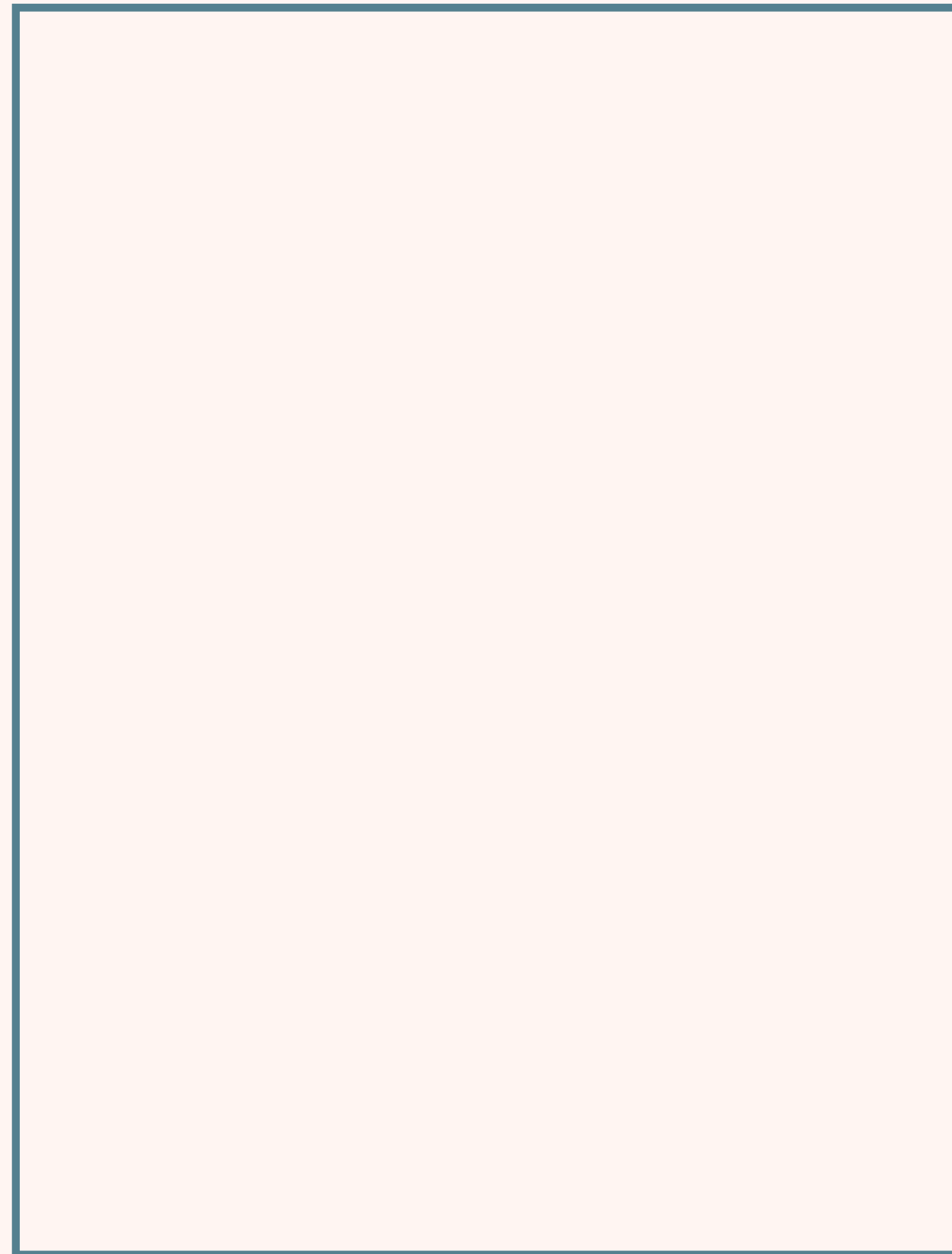
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

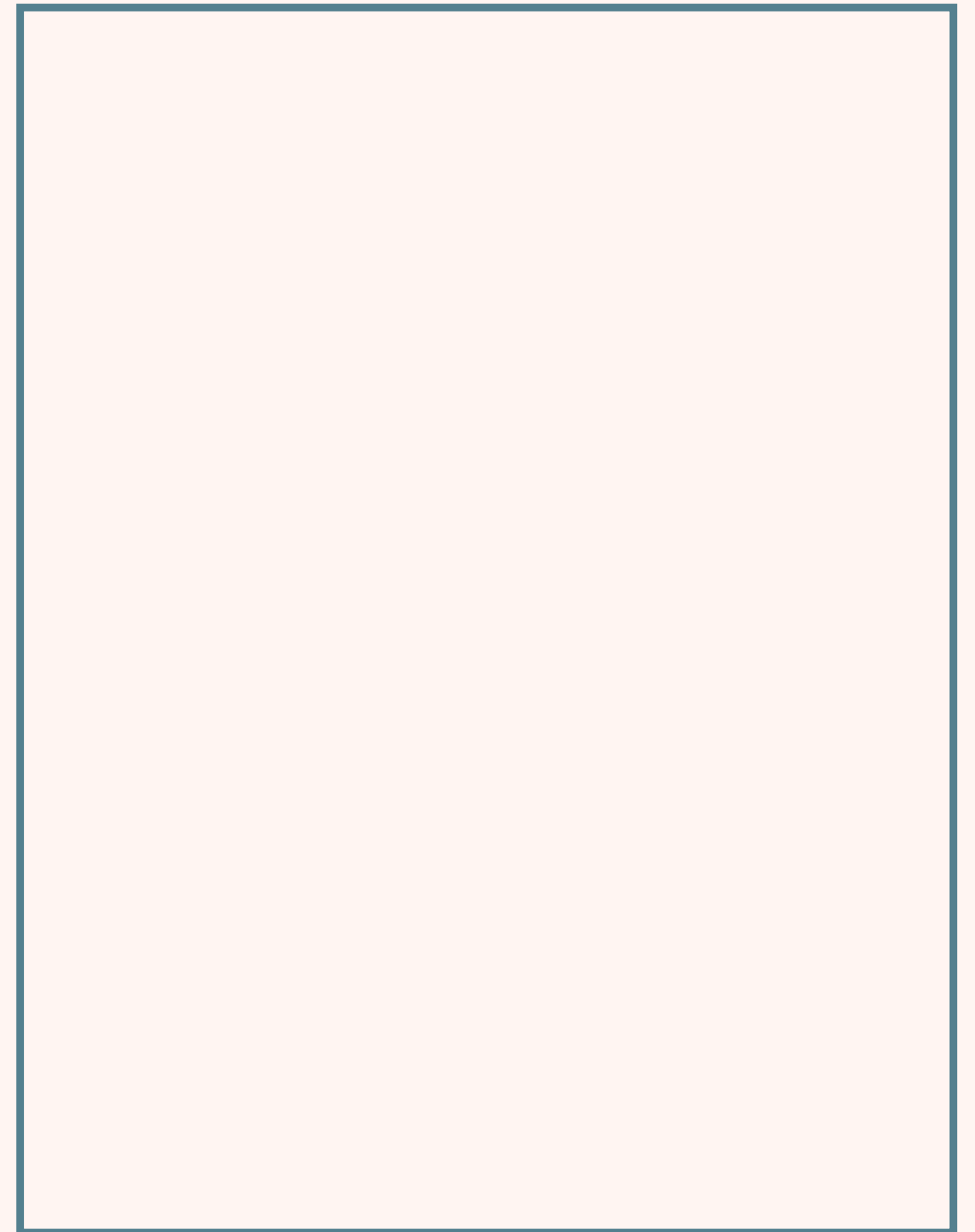
Phase I



Phase II



Phase III



CVI Phases from Roman-Lantzy

WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

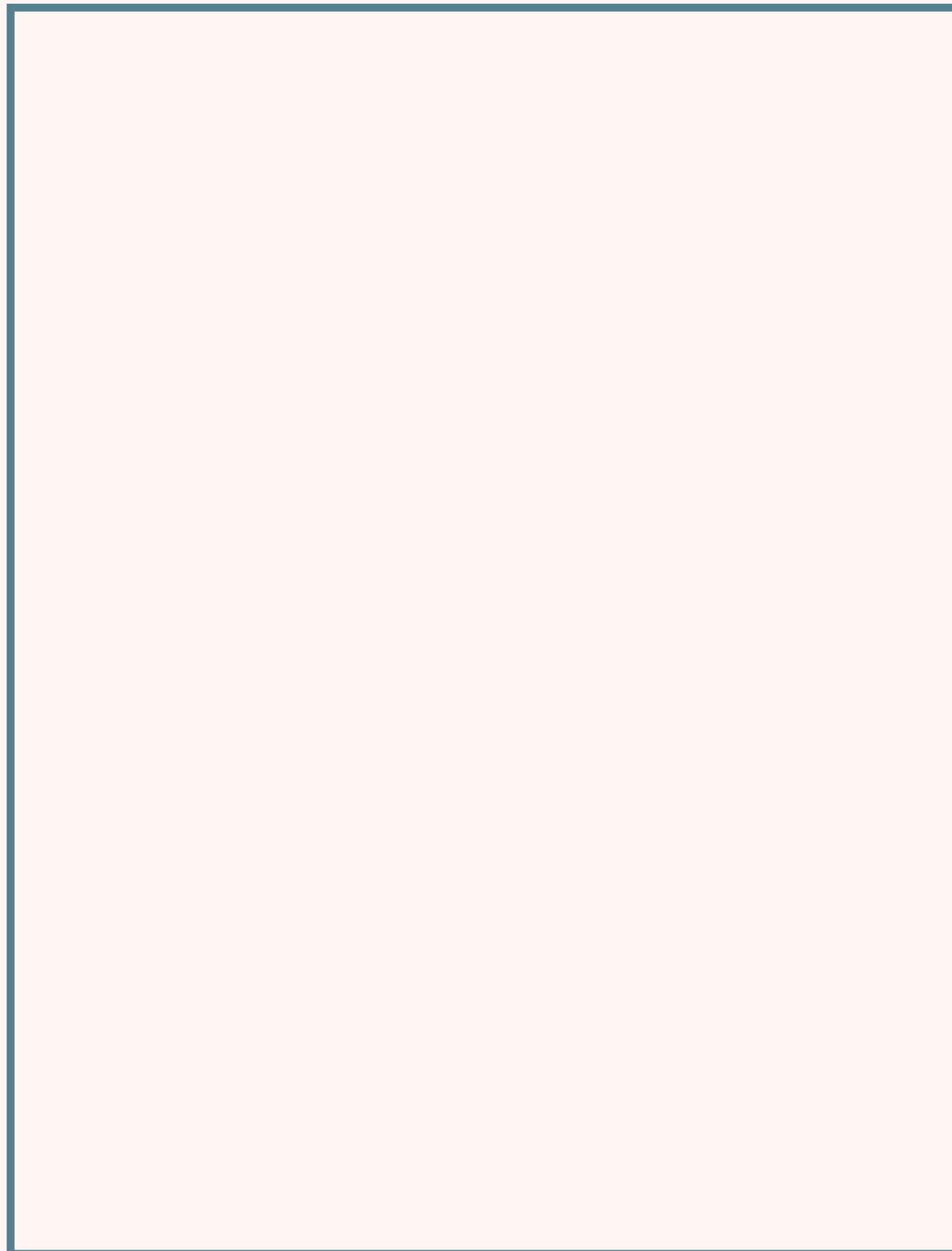


CVI Phases from Roman-Lantzy

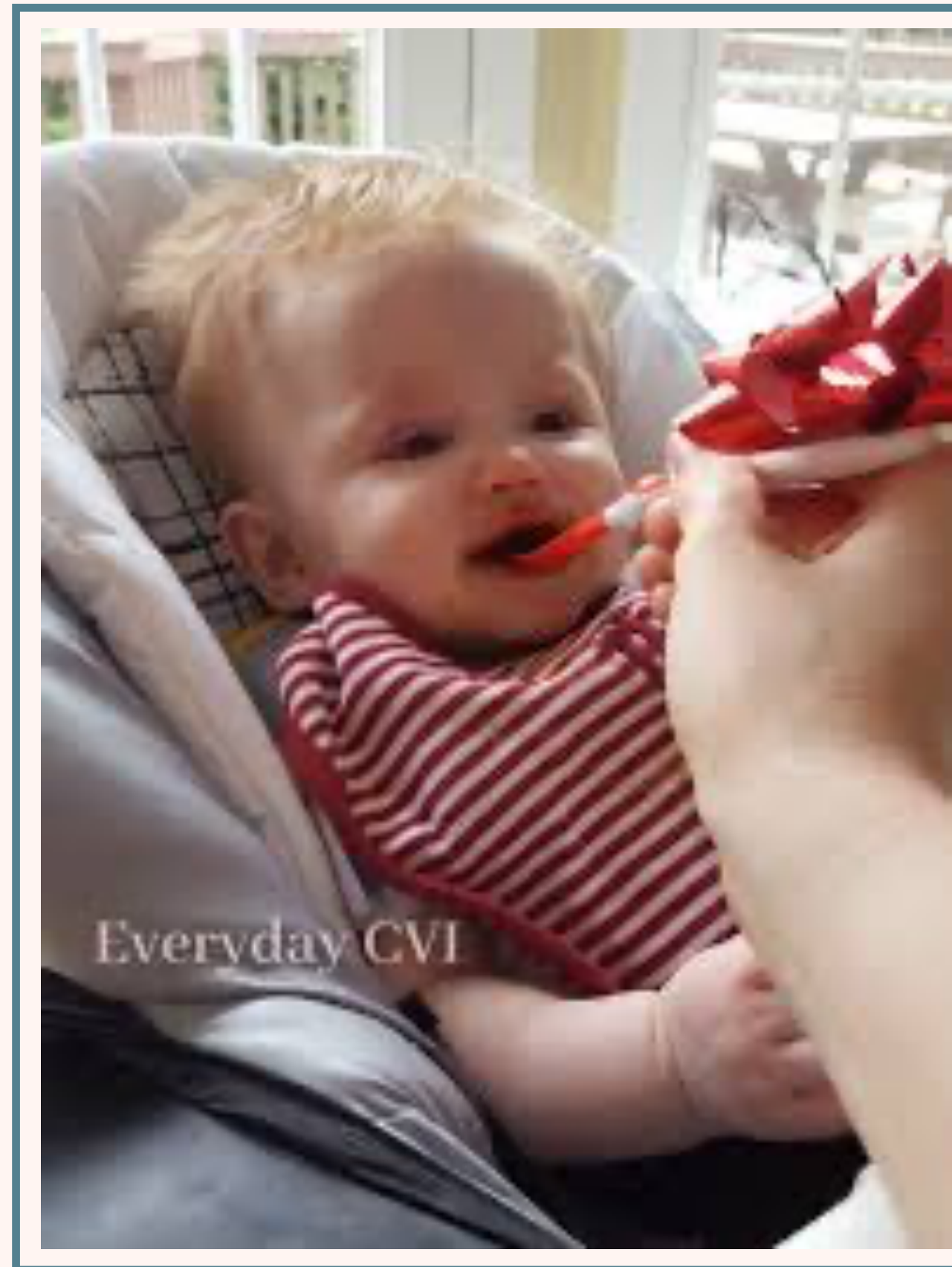
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

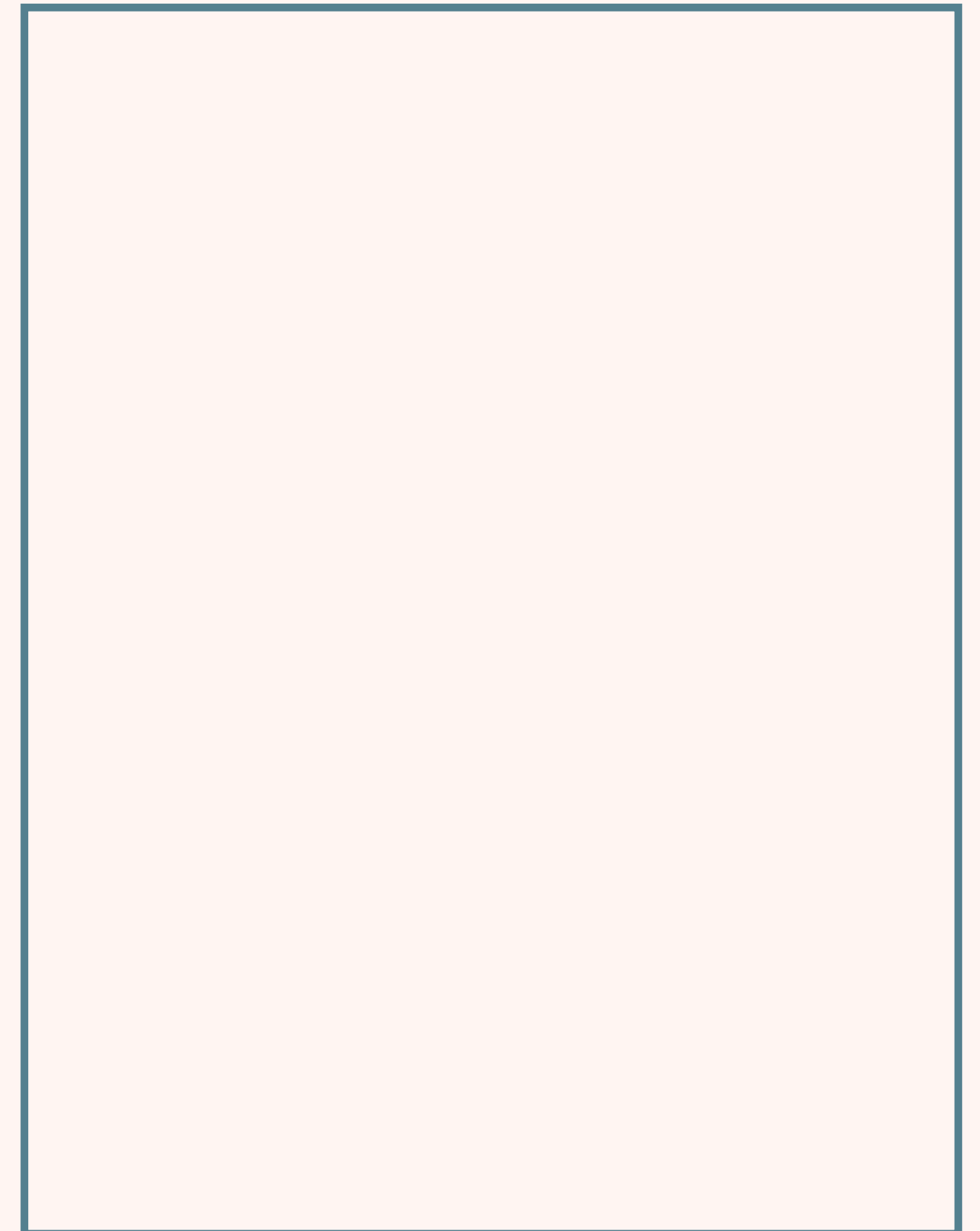
Phase I



Phase II



Phase III

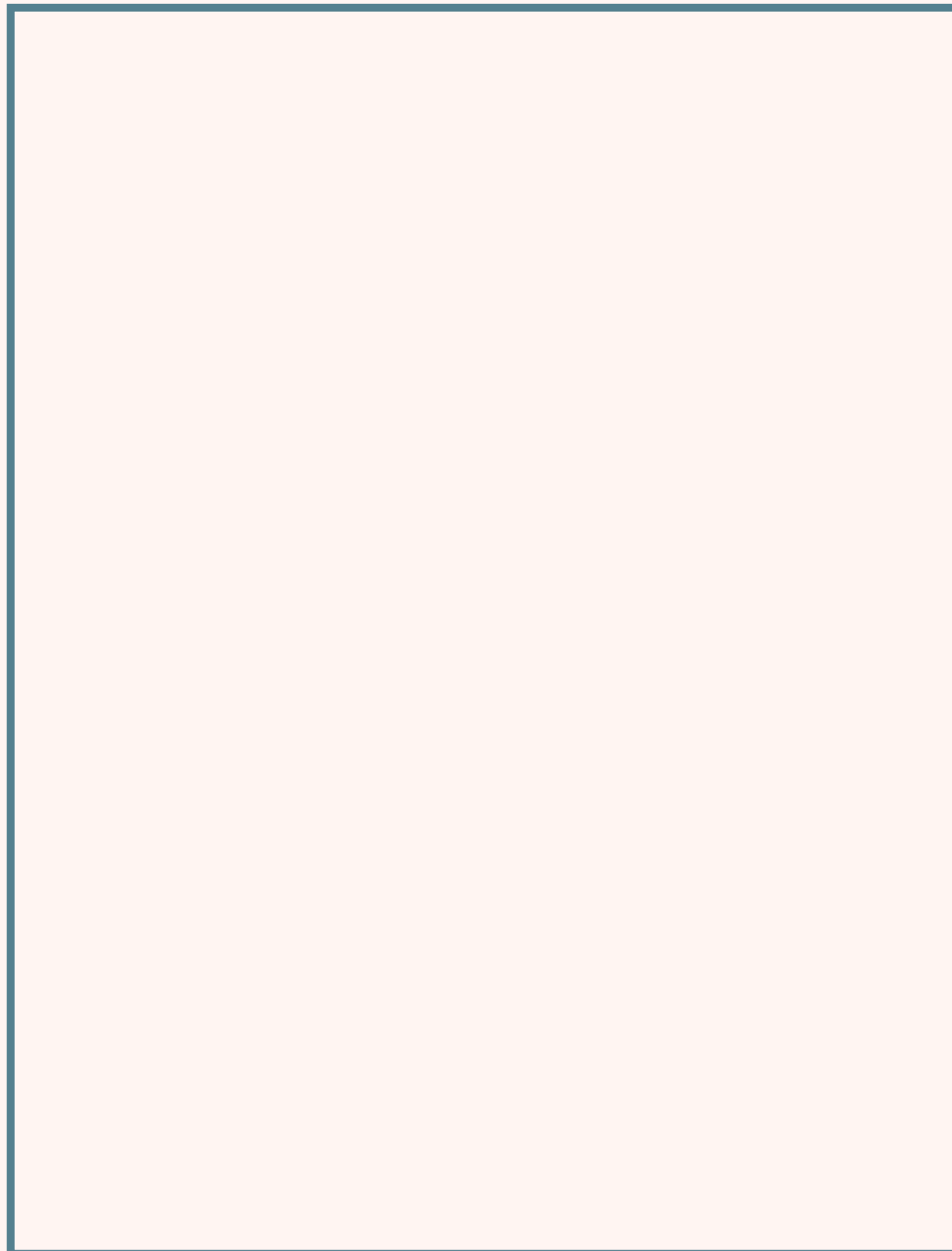


CVI Phases from Roman-Lantzy

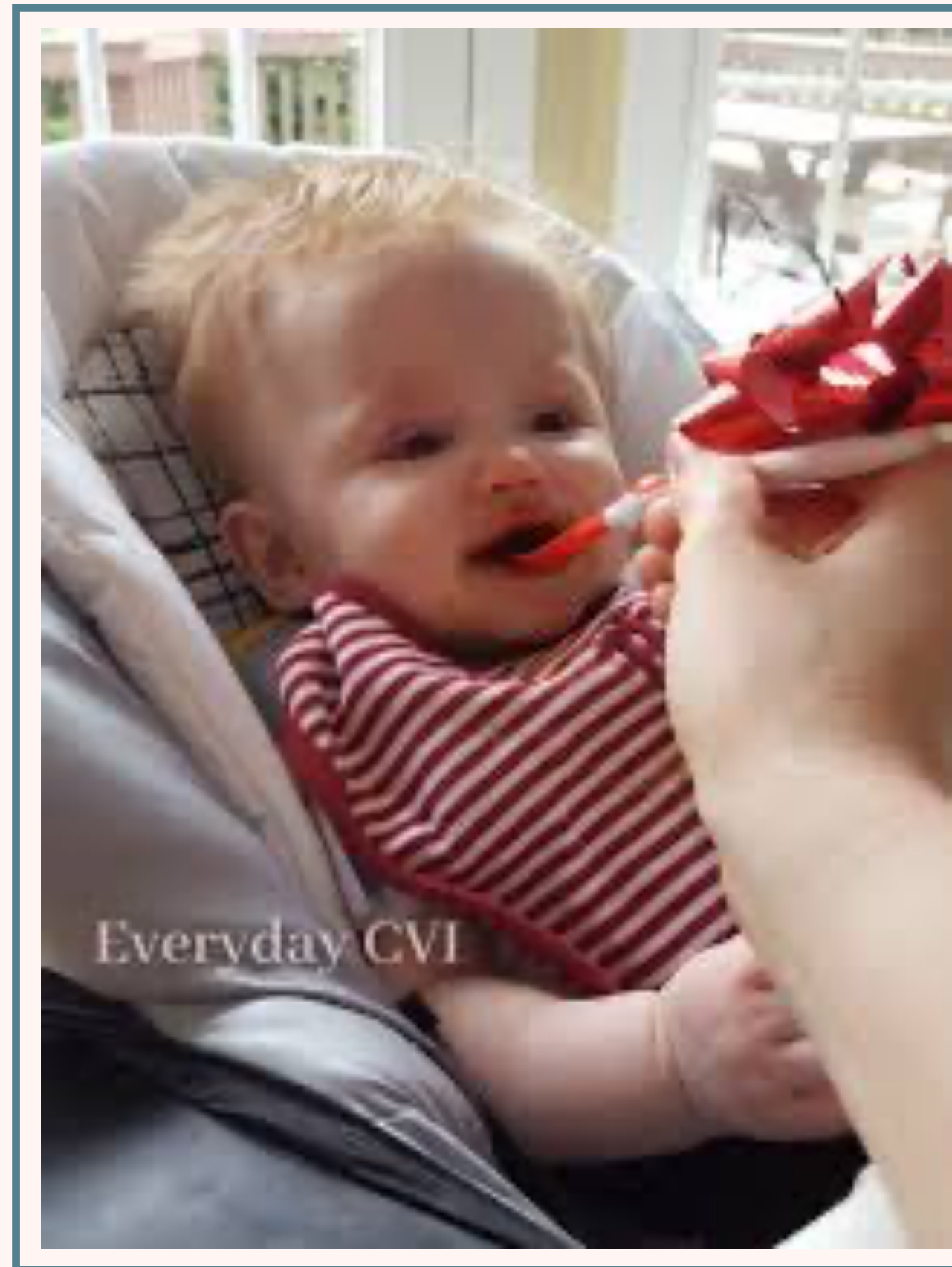
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

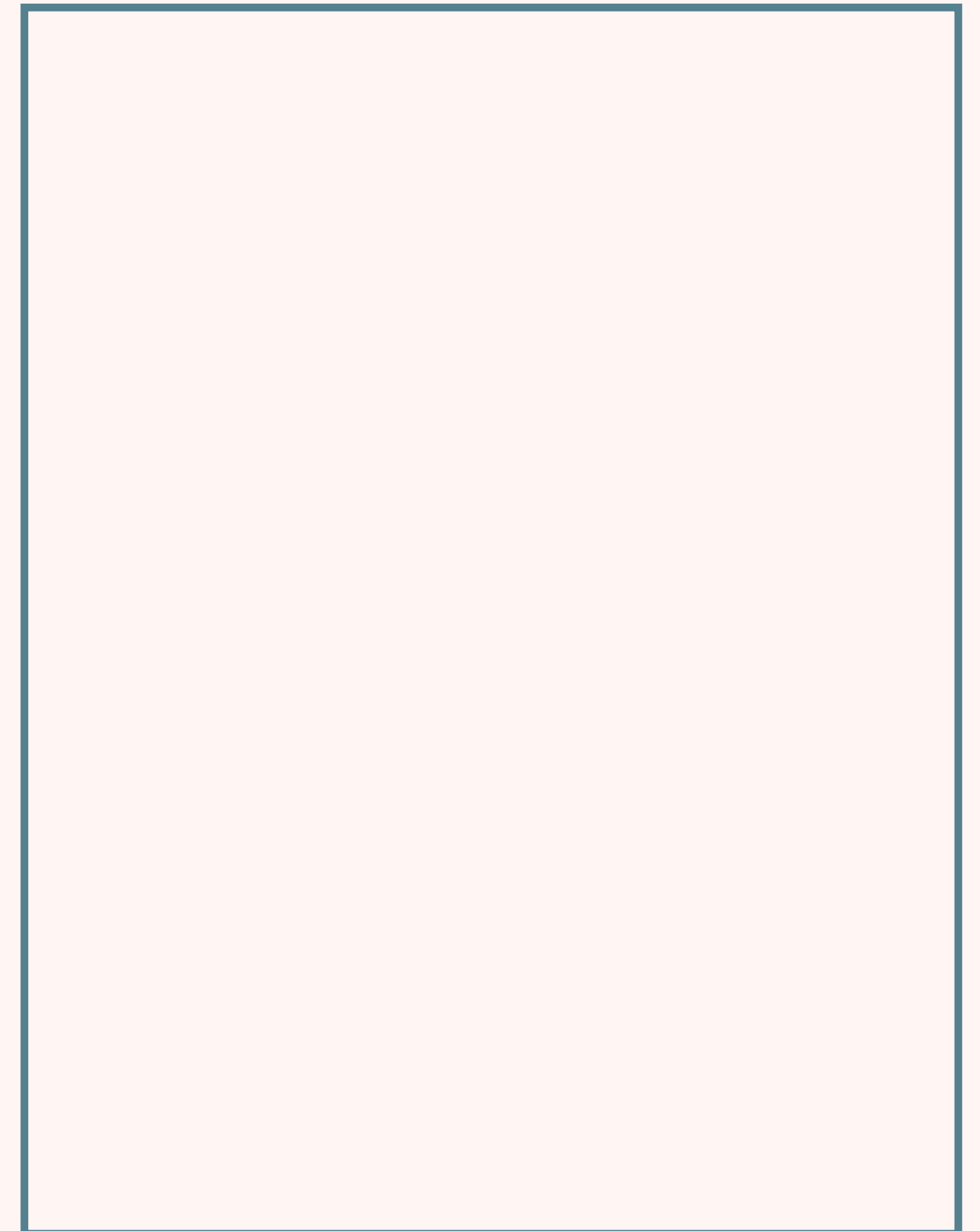
Phase I



Phase II



Phase III



CVI Phases from Roman-Lantzy

WHAT PHASE?

Ensuring Meaningful Access for Students with CVI



CVI Phases from Roman-Lantzy

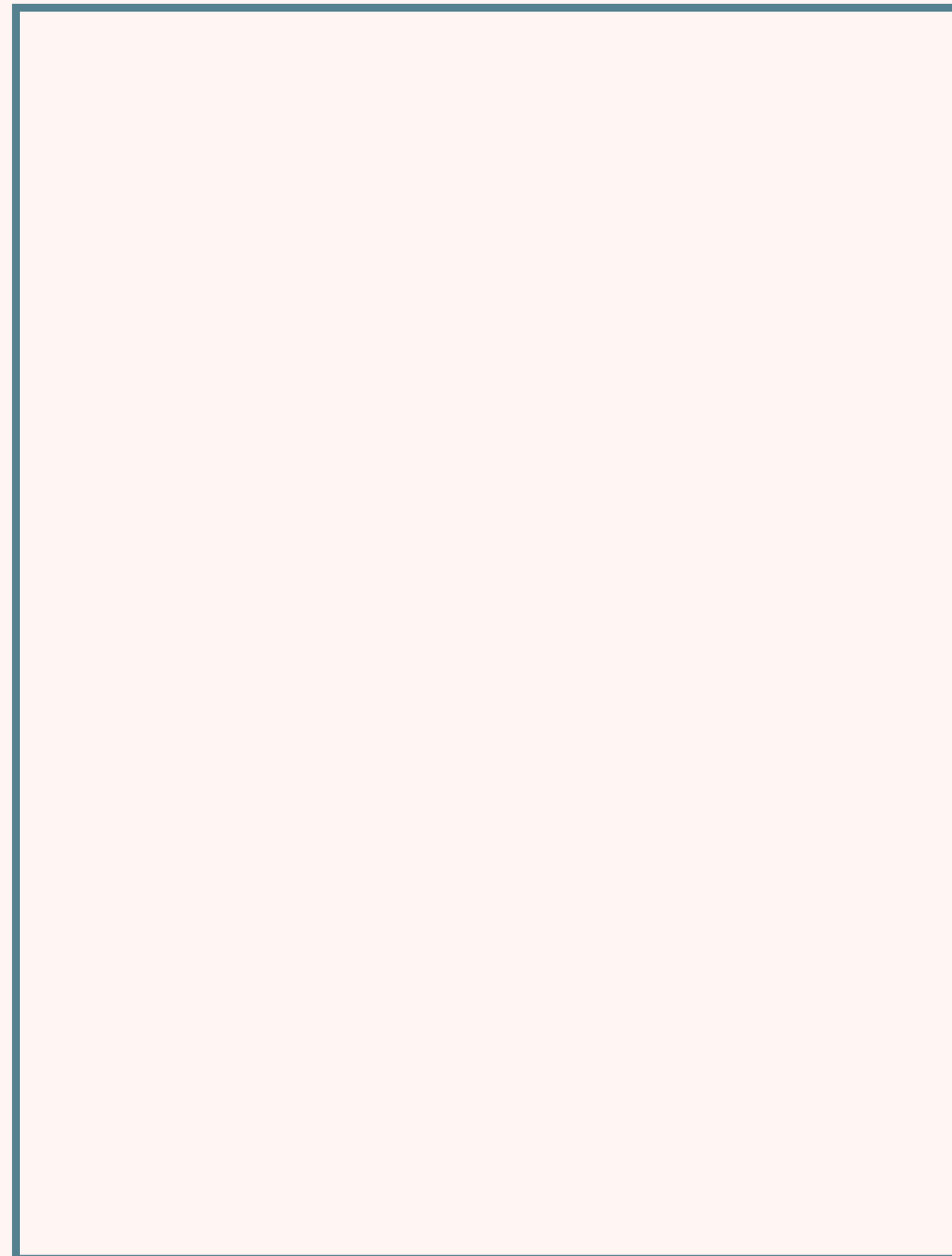
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

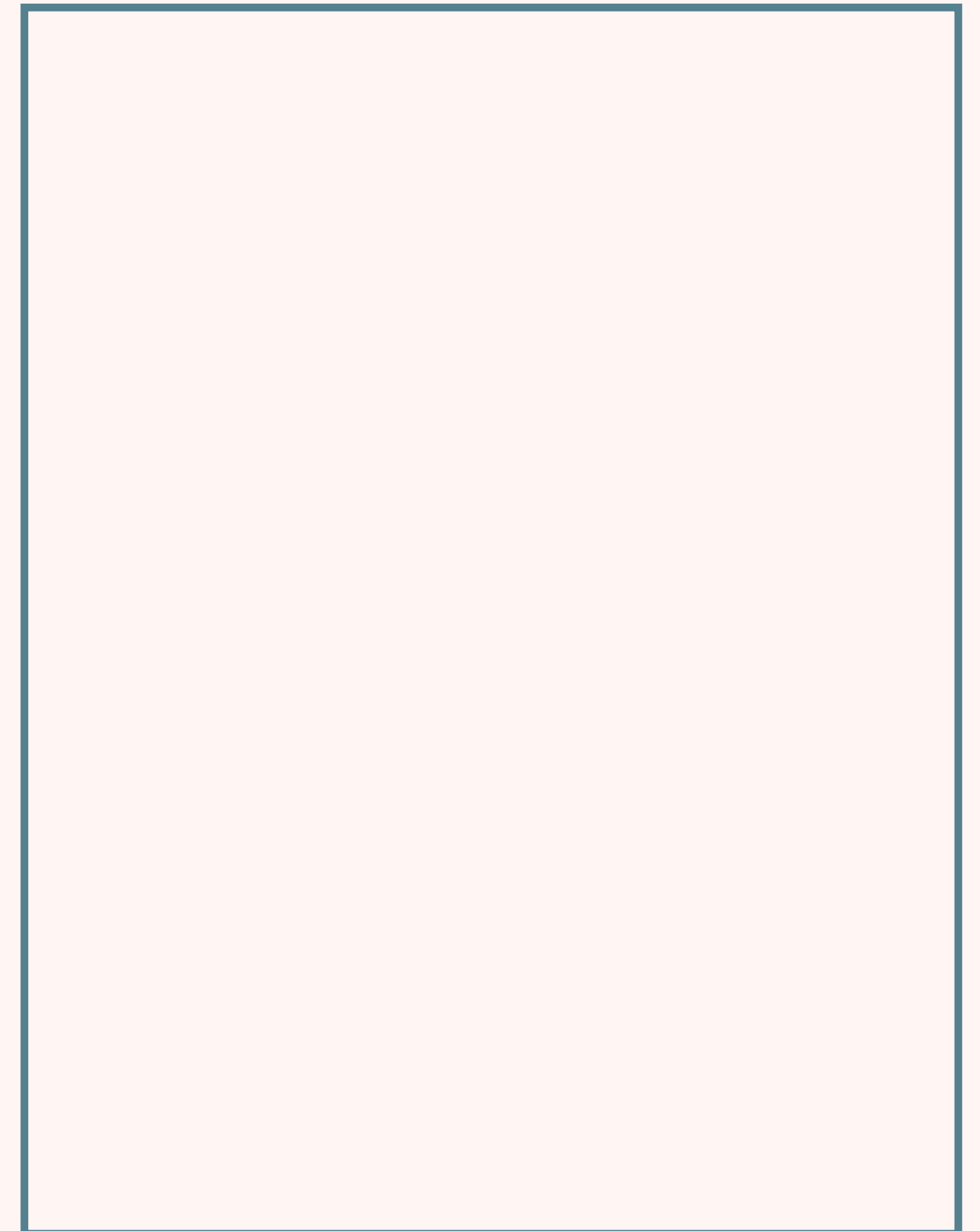
Phase I



Phase II



Phase III



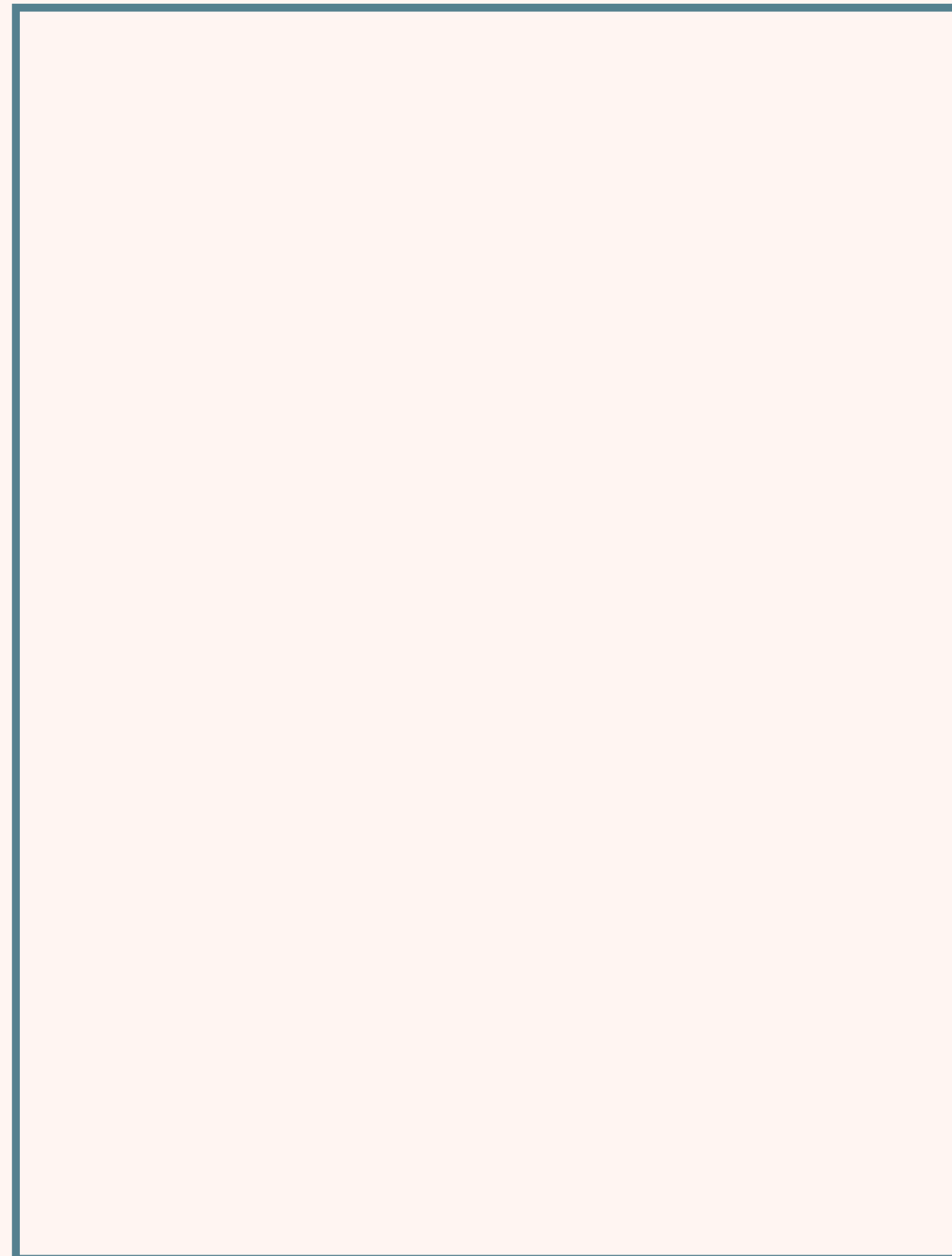
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

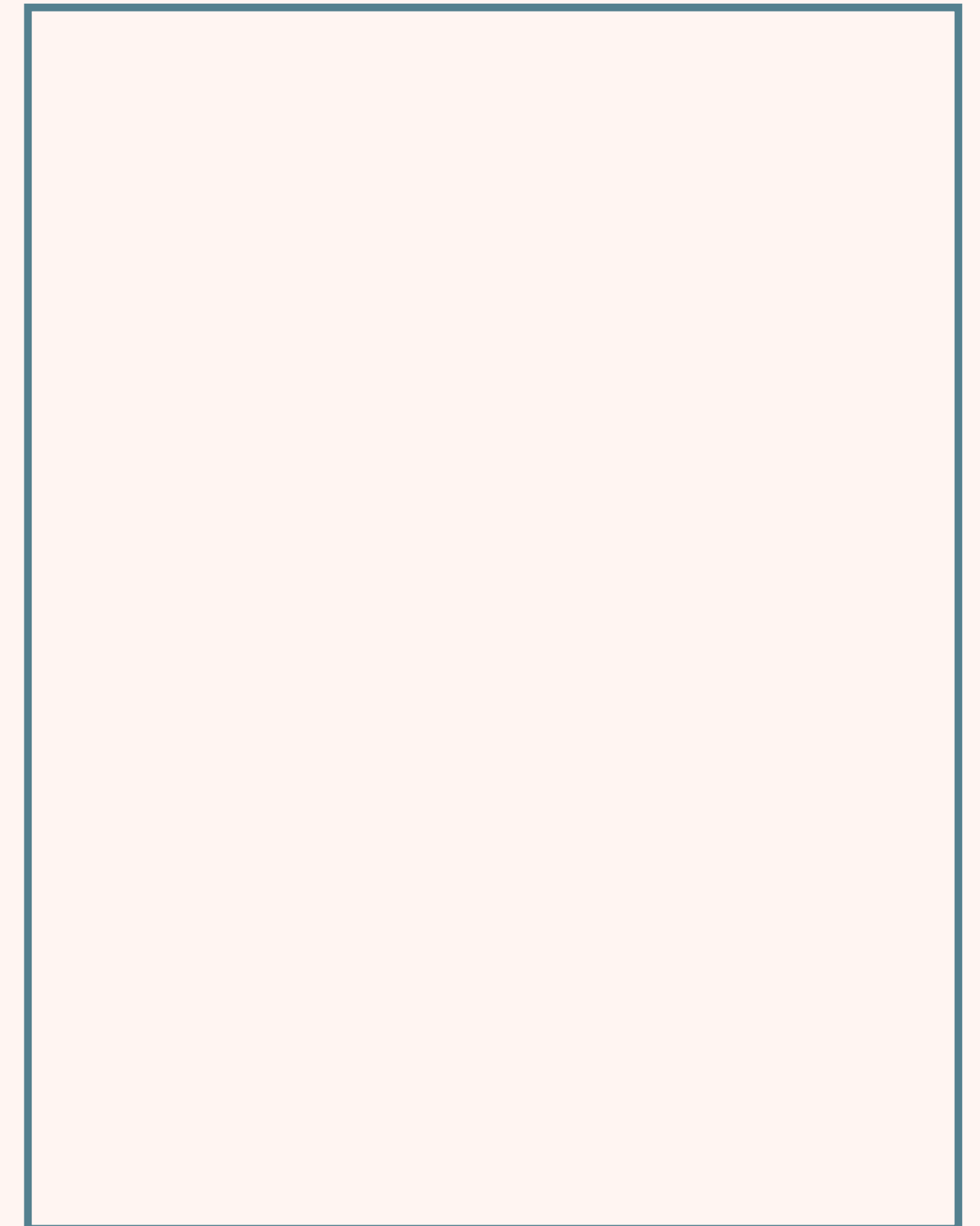
Phase I



Phase II



Phase III



WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

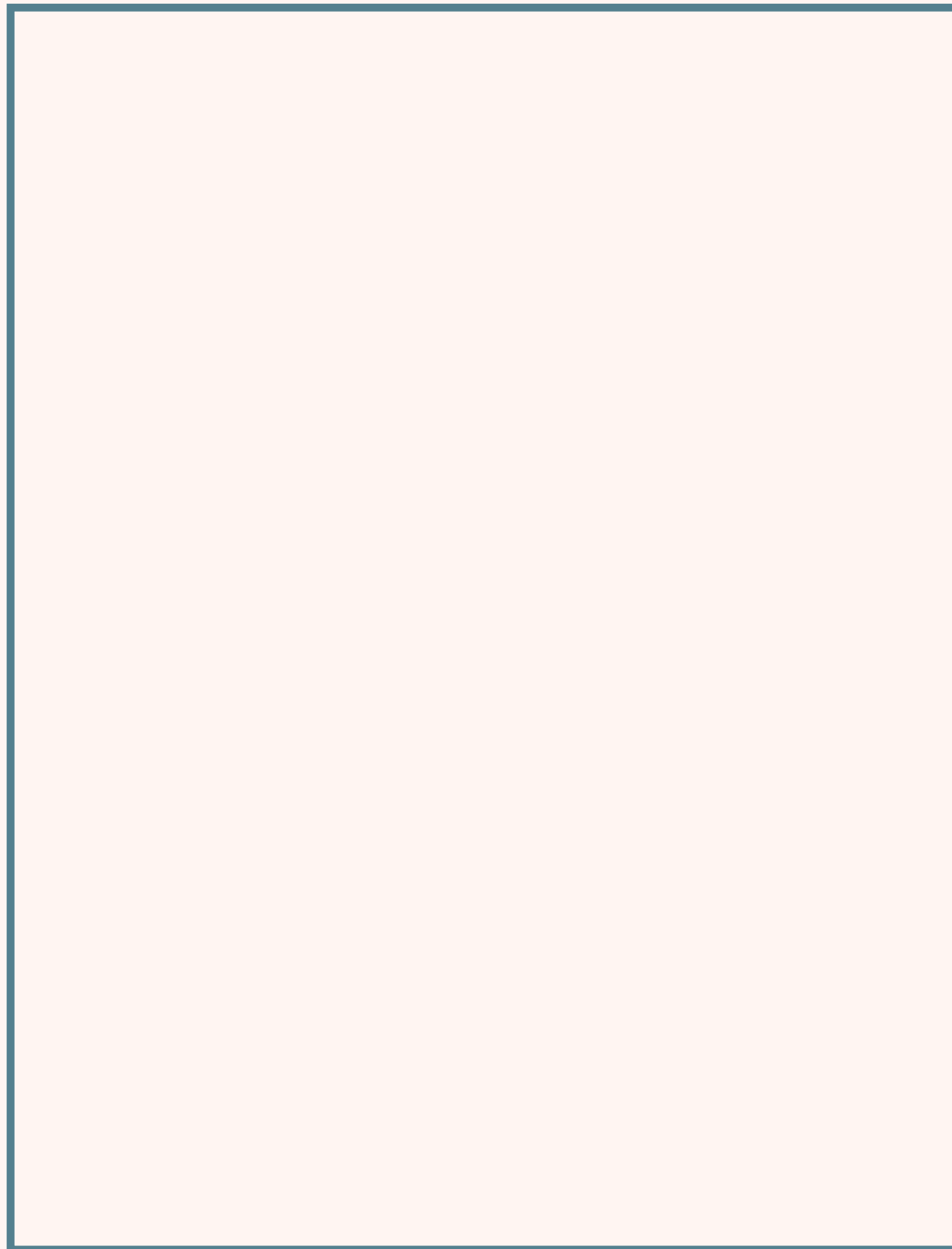


CVI Phases from Roman-Lantzy

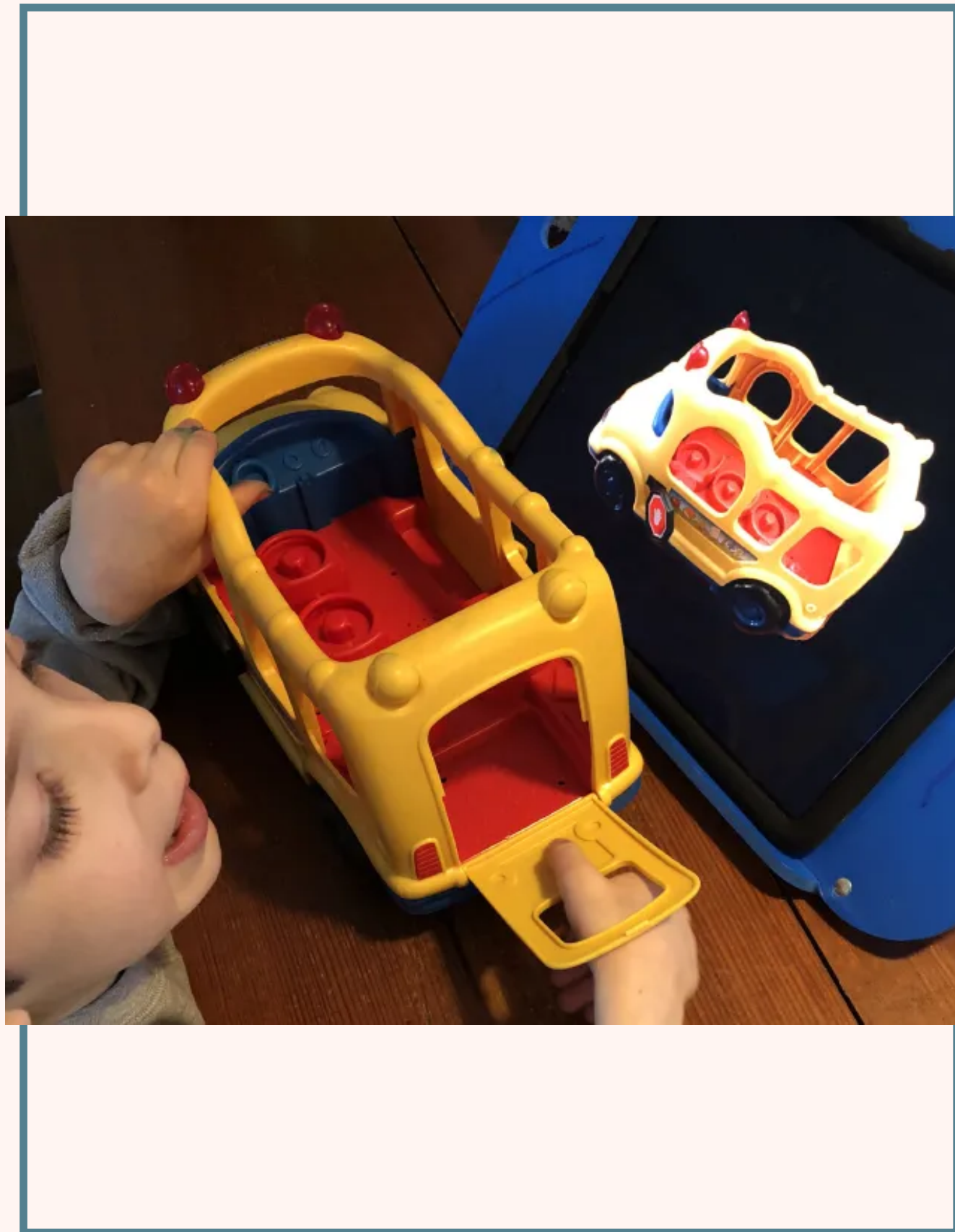
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

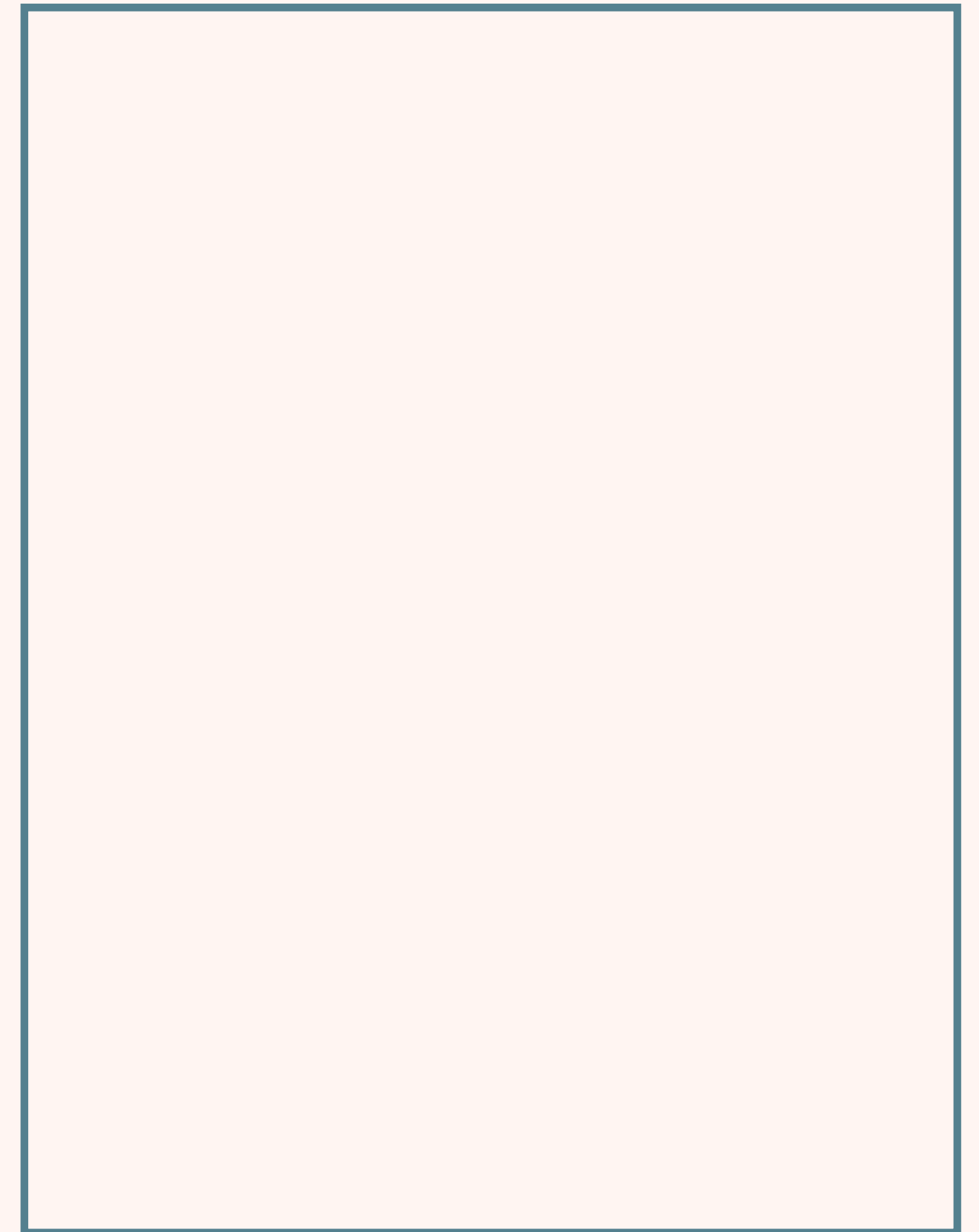
Phase I



Phase II



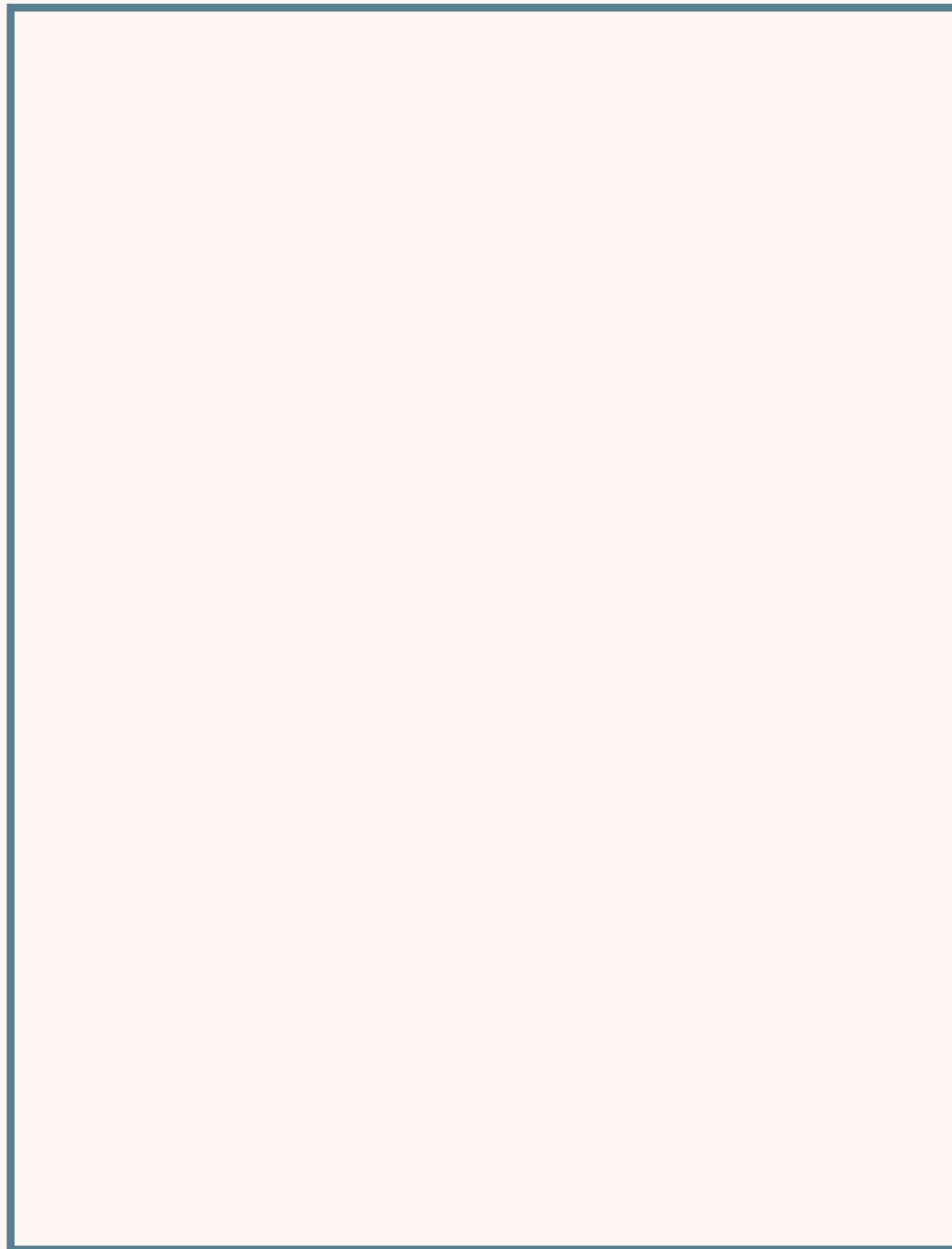
Phase III



WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

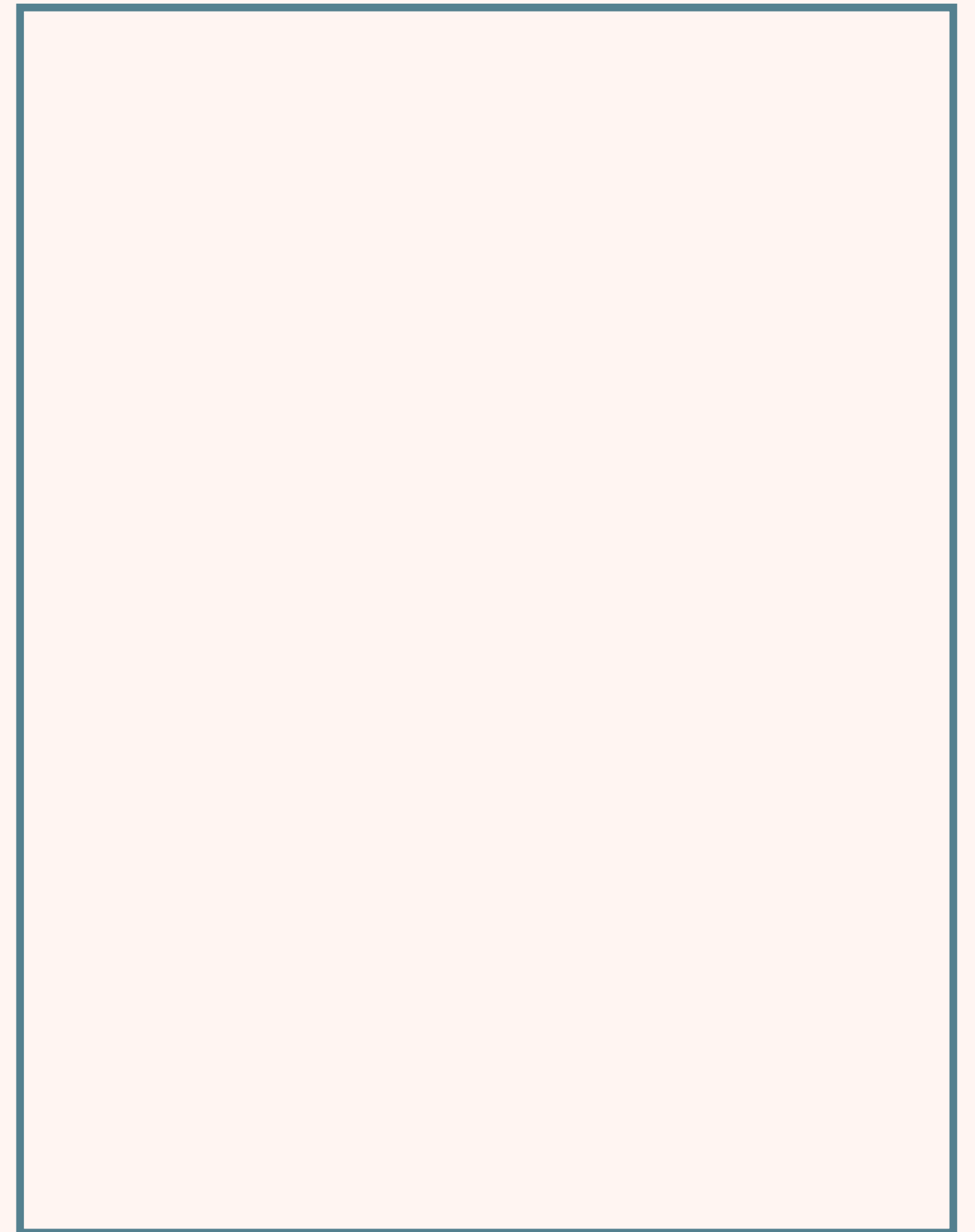
Phase I



Phase II



Phase III



WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

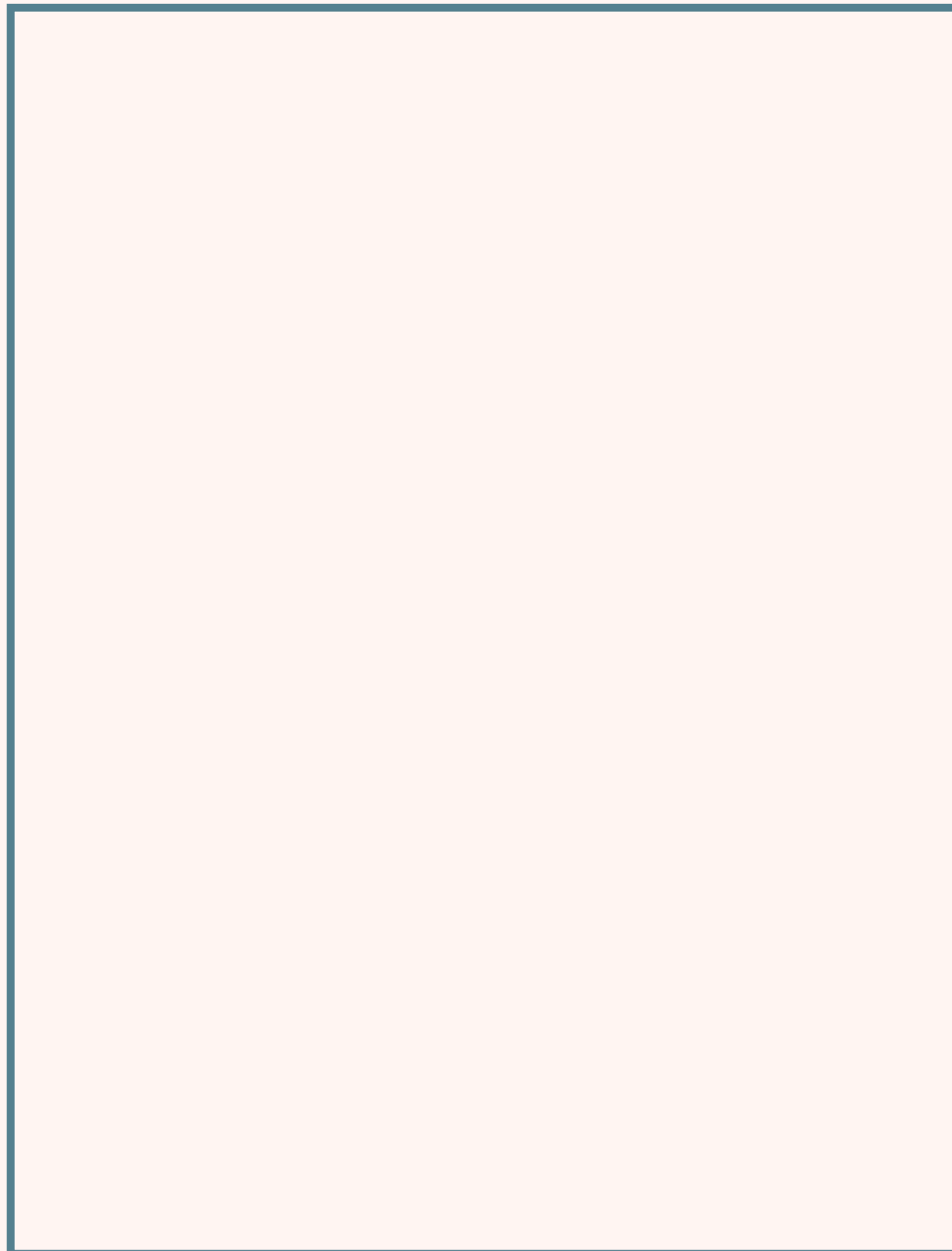


CVI Phases from Roman-Lantzy

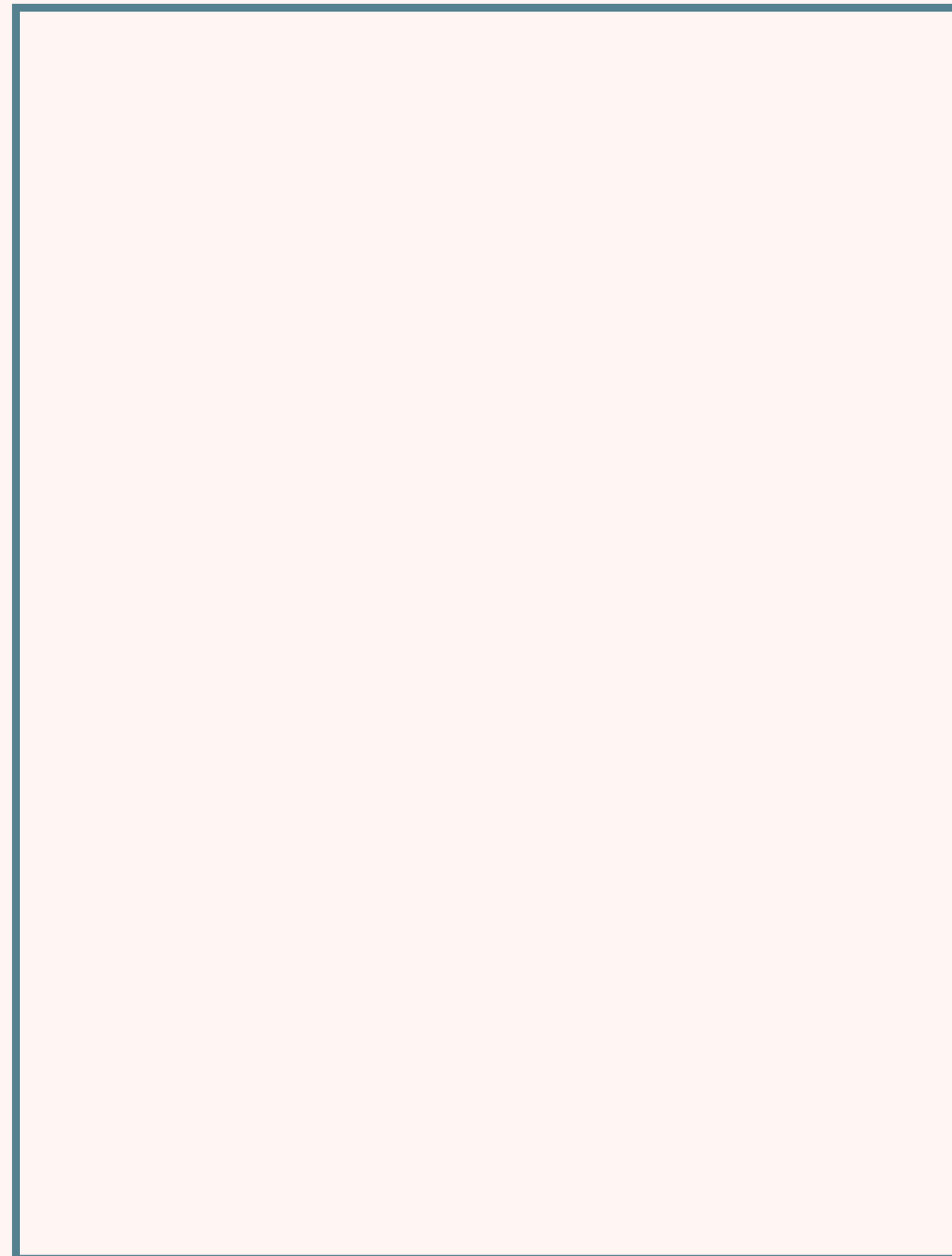
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

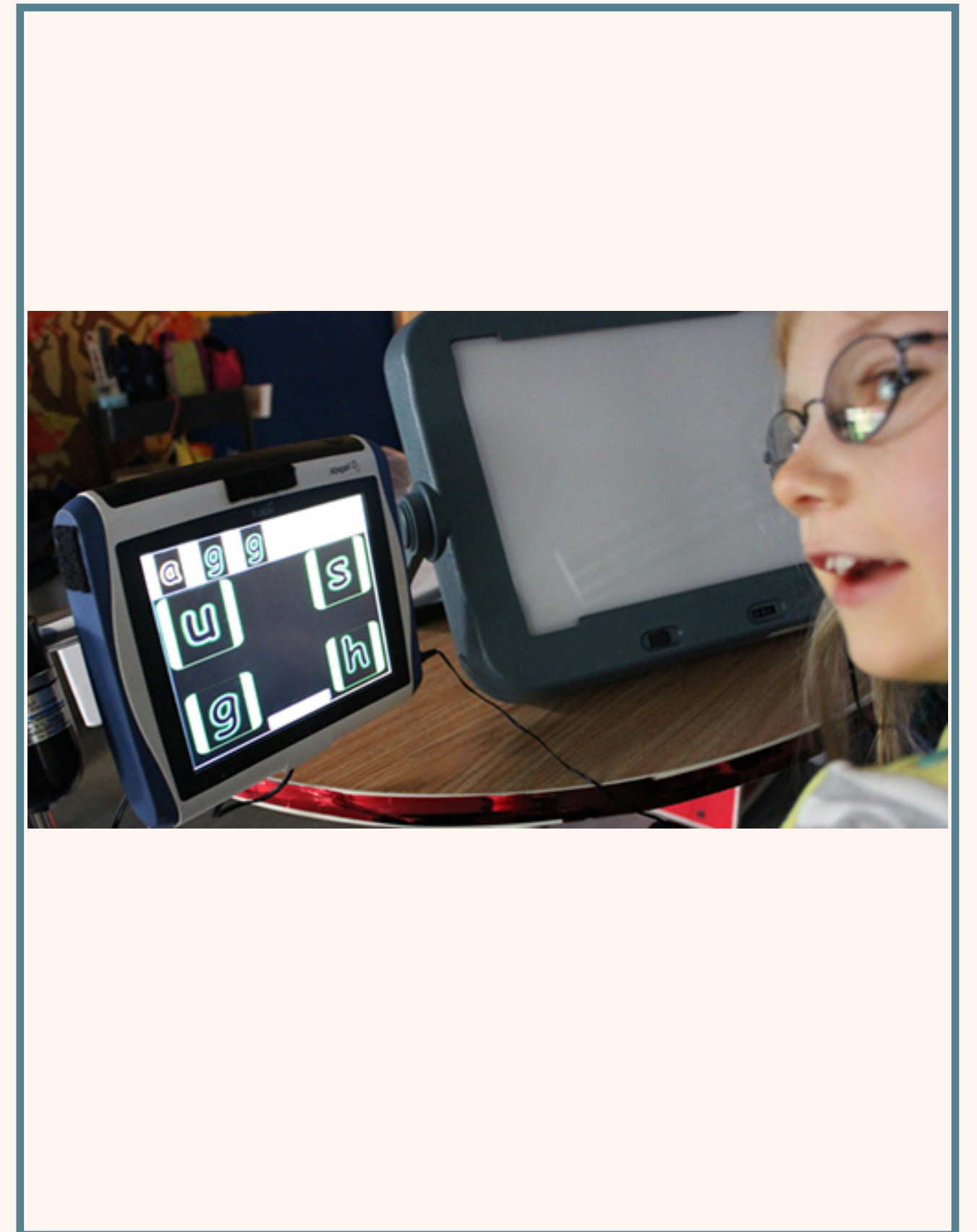
Phase I



Phase II



Phase III

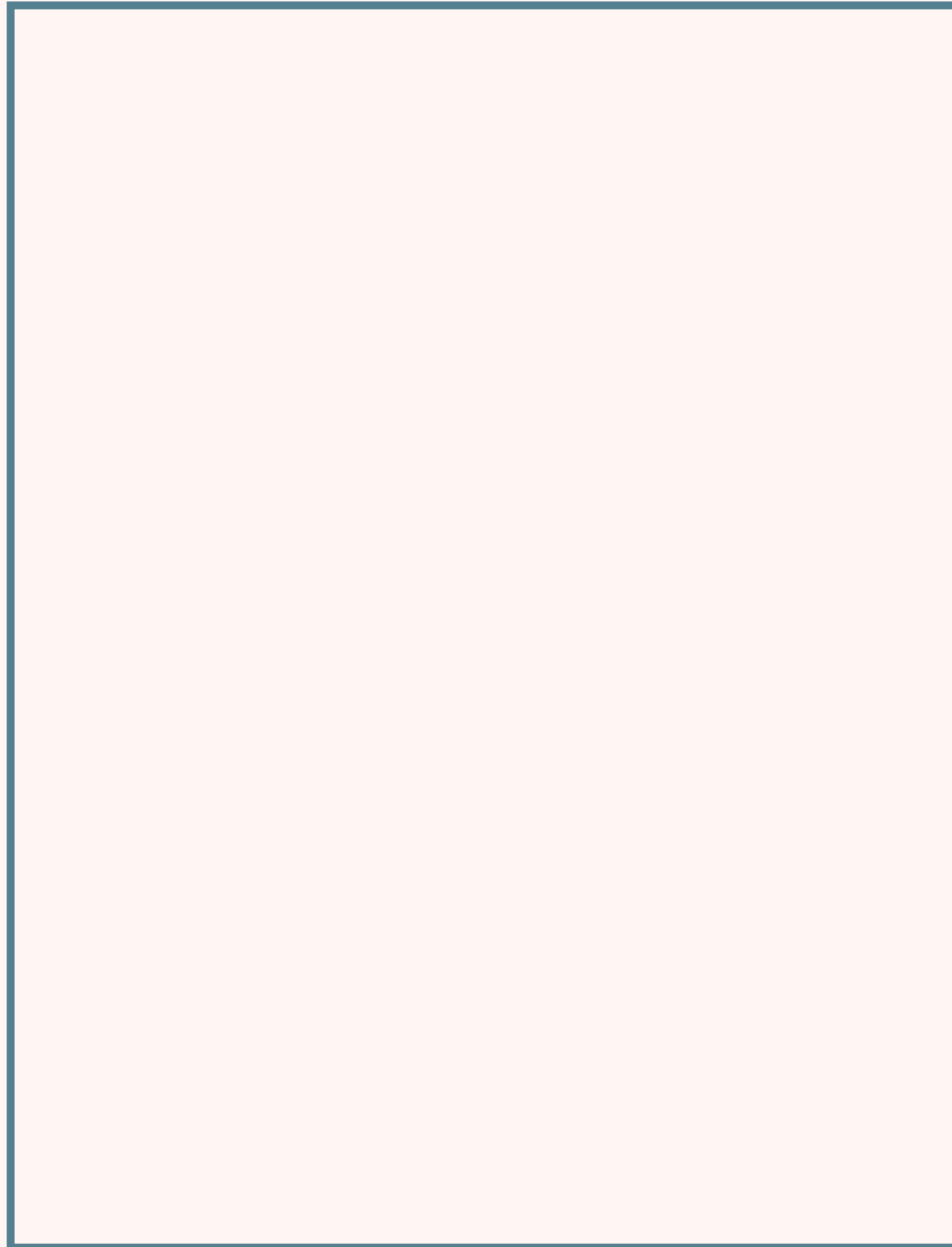


CVI Phases from Roman-Lantzy

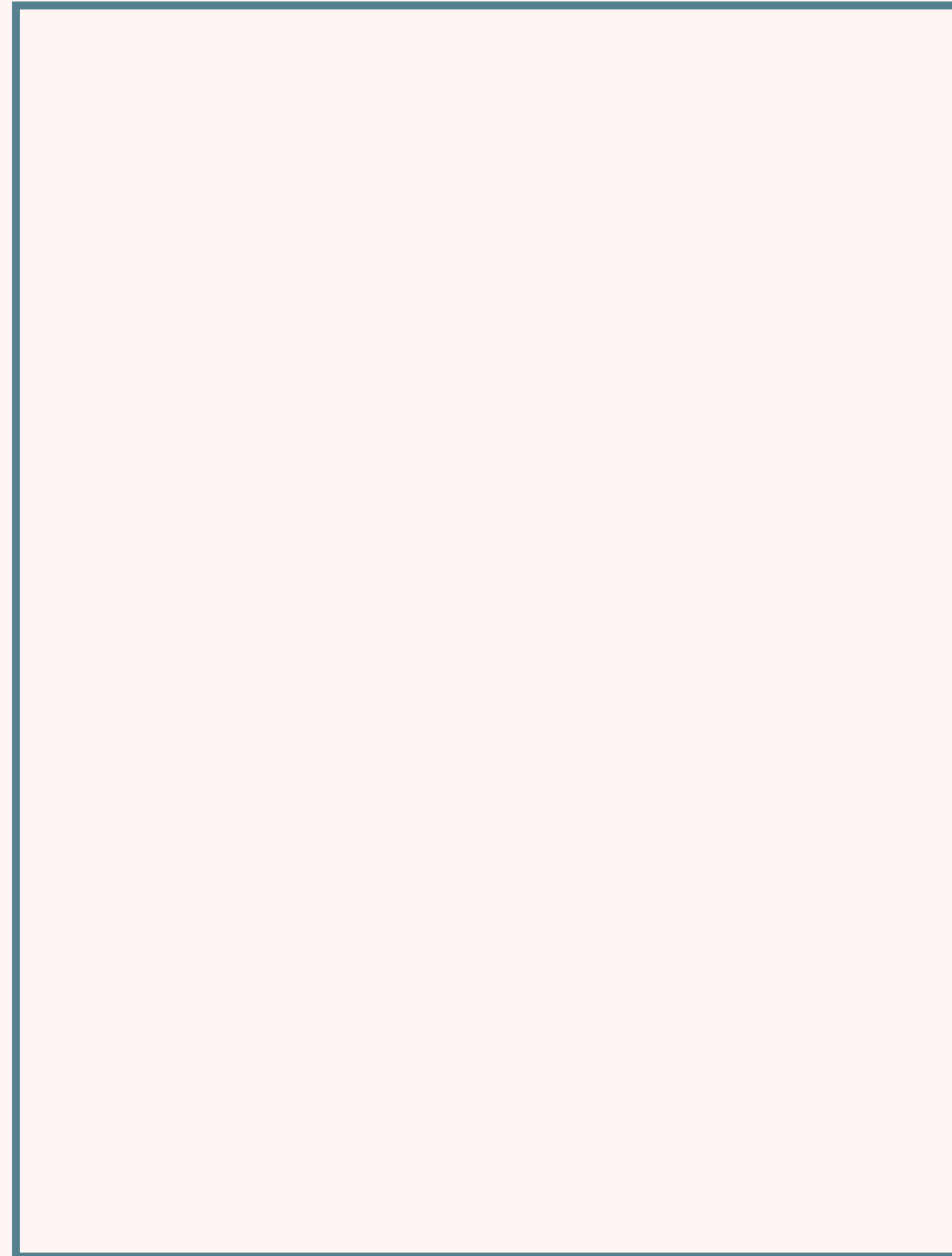
WHAT PHASE?

Ensuring Meaningful Access for Students with CVI

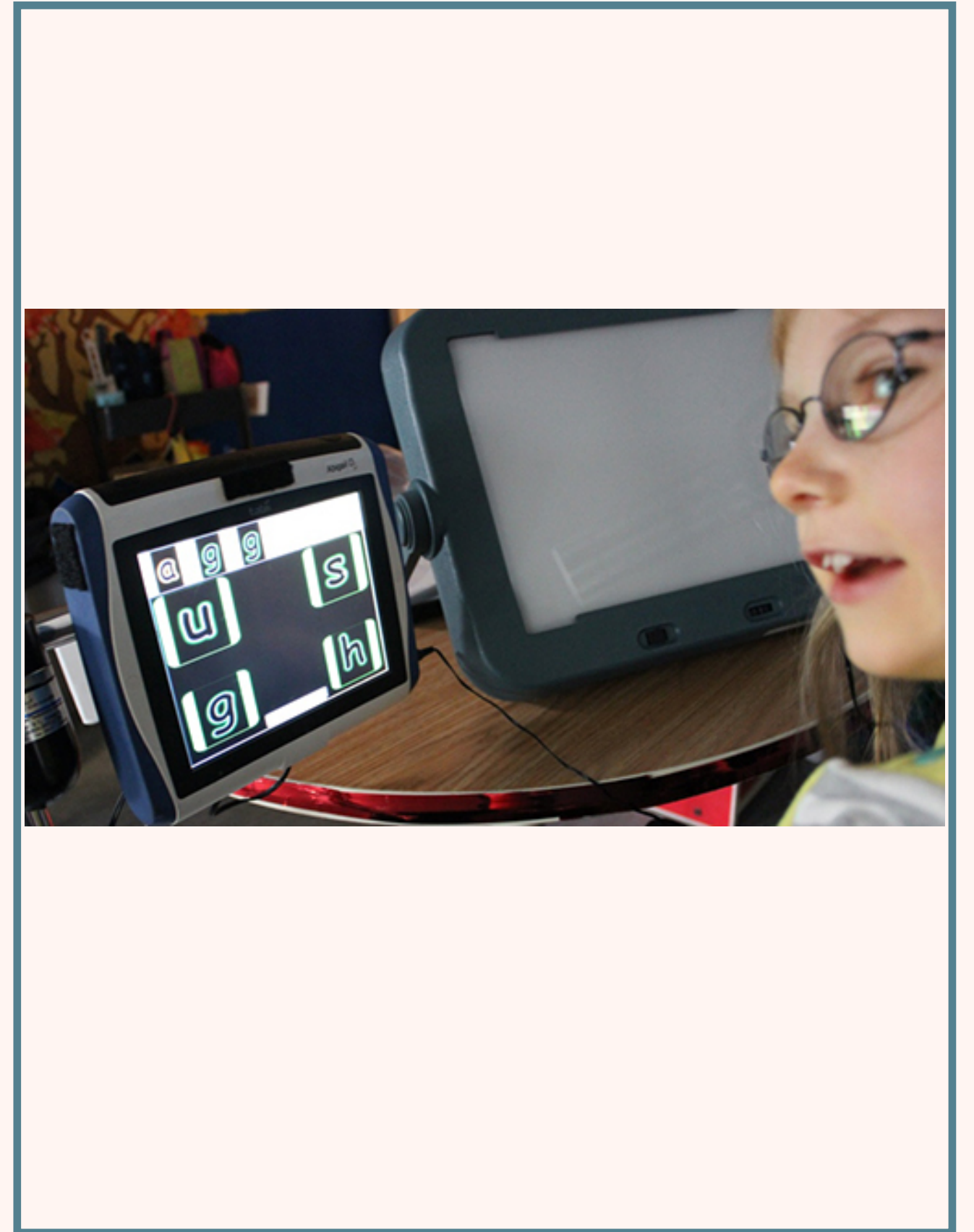
Phase I



Phase II



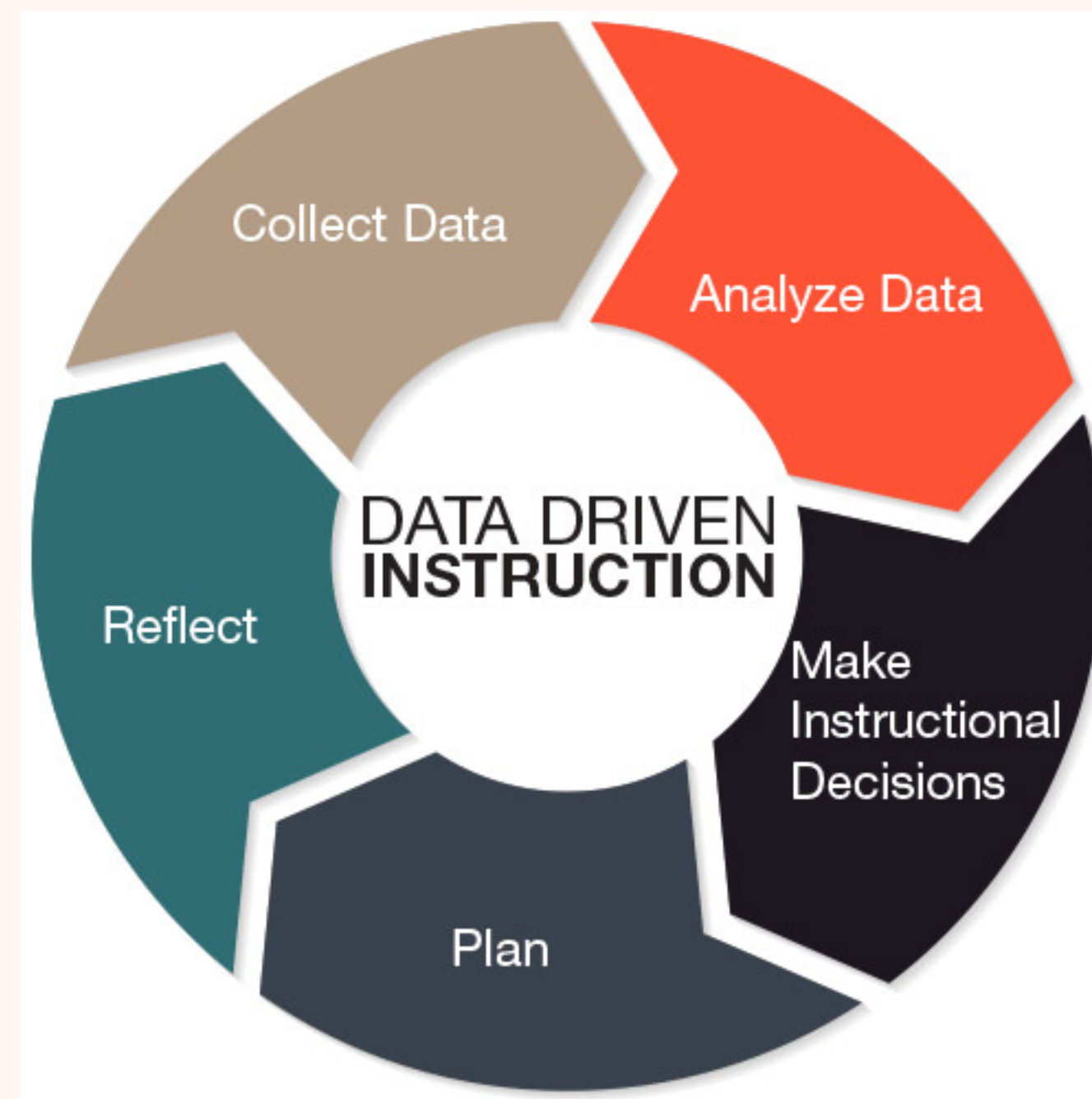
Phase III



CVI Phases from Roman-Lantzy

DATA DRIVEN INSTRUCTION

Ensuring Meaningful Access for Students with CVI



**“BUT MERE EXPOSURE TO VISUAL
INPUT IS NOT SUFFICIENT FOR
INDIVIDUALS WITH CVI”**

Roman 2018

ASSIGNED TASK



**Align Content to meet student need by
modifying curriculum**



**Align Visual Input to meet student need by
accommodating images and text**



SENSORY BALANCE

Ensuring Meaningful Access for Students with CVI

Considering how the 10 characteristics impact the students ability to access materials at different parts of the day

CVI Sensory Balance: Learning Media Profile

Visual Learning Media

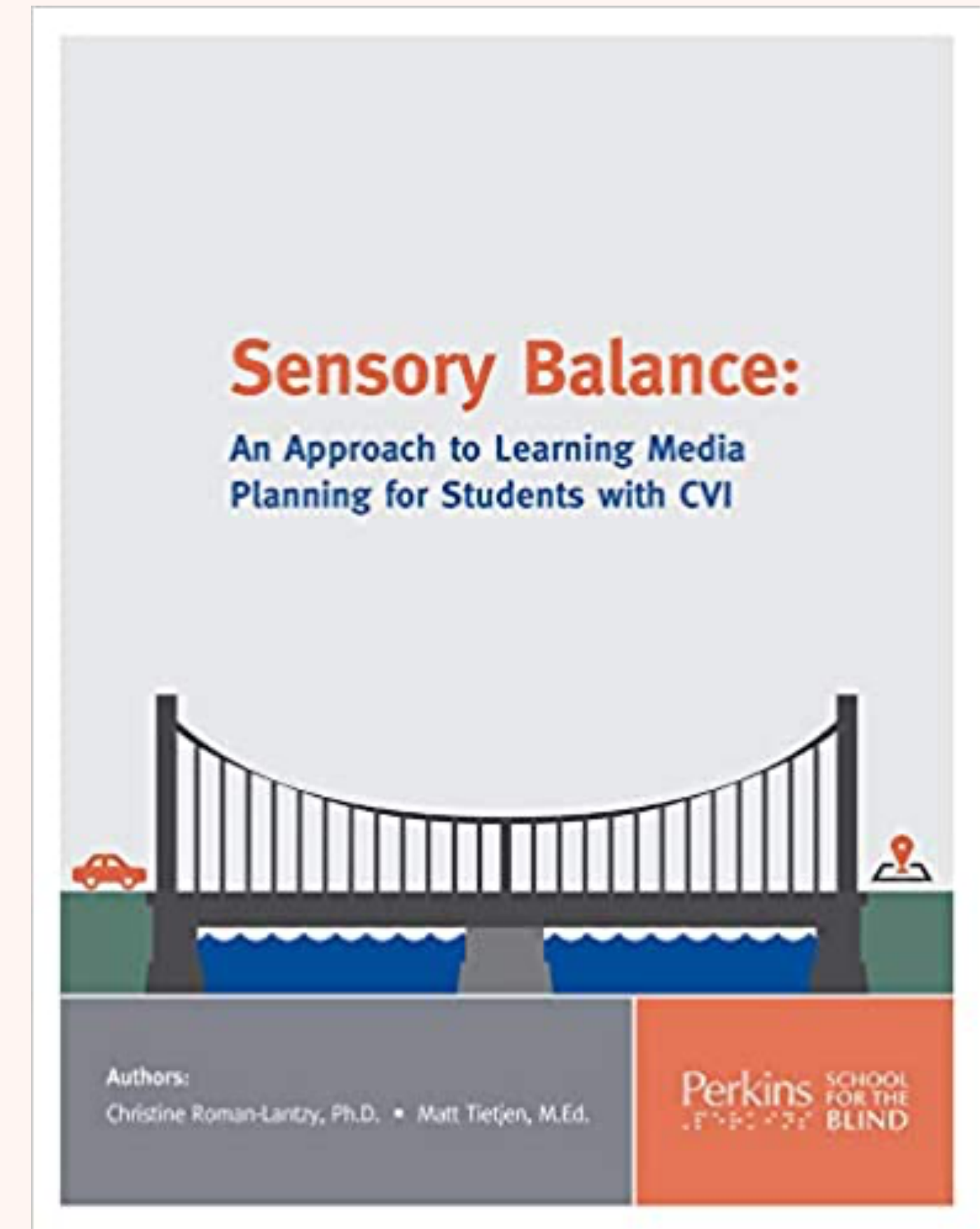
Approximations for each Phase

Compensatory Learning Media

Multi-Sensory Input

Technology

Learning Media Goals



Roman-Lantzy, C. and Tietjen, M. (2020). Sensory Balance: An Approach to Learning Media Planning for Students with CVI. Watertown, MA: Perkins School for the Blind.

CVI Phases from Roman-Lantzy

SENSORY BALANCE

Ensuring Meaningful Access for Students with CVI

Considering how the 10 characteristics impact the students ability to access materials at different parts of the day

CVI Sensory Balance: Learning Media Profile

Visual Learning Media

Approximations for each Phase

Compensatory Learning Media

Multi-Sensory Input

Technology

Learning Media Goals

Roman-Lantzy, C. and Tietjen, M. (2020). Sensory Balance: An Approach to Learning Media Planning for Students with CVI. Watertown, MA: Perkins School for the Blind.

CVI Phases from Roman-Lantzy

SENSORY BALANCE

Ensuring Meaningful Access for Students with CVI

Activity Planning Form:

Activity

Lead modality

Supporting modality

Technology/Tools required

Environment

Roman-Lantzy, C. and Tietjen, M. (2020). Sensory Balance: An Approach to Learning Media Planning for Students with CVI. Watertown, MA: Perkins School for the Blind.

CVI Phases from Roman-Lantzy

SENSORY BALANCE

Ensuring Meaningful Access for Students with CVI

Activity Planning Form:

Activity

Lead modality

Supporting modality

Technology/Tools required

Environment

FIGURE 3

Learning Modalities by Phase

PHASE I	PHASE II	PHASE II
Tactual & Auditory		Vision
<p>Vision Now: Visual behavior is just emerging.</p> <p>Vision Goal: Build visual behavior.</p> <p>Tactual & Auditory Now: Most reliable way to interact with the world.</p>	<p>Vision Now: Integrating vision with function.</p> <p>Vision Goal: Increase opportunities to use vision; teach salient features.</p> <p>Tactual & Auditory Now: Used often to supplement visual tasks and substitute when necessary.</p>	<p>Vision Now: Most reliable way to interact with the world.</p> <p>Vision Goal: Increase stability of functional vision; handle increasingly complex visual demands.</p> <p>Tactual & Auditory Now: Used occasionally to supplement visual tasks and substitute when necessary—mostly to avoid visual fatigue.</p>

Roman-Lantzy, C. and Tietjen, M. (2020). Sensory Balance: An Approach to Learning Media Planning for Students with CVI. Watertown, MA: Perkins School for the Blind.

“WHAT’S THE COMPLEXITY” FRAMEWORK

Ensuring Meaningful Access for Students with CVI

ENVIRONMENT RATING GUIDE							Figure 4
	Complexity of Array	Complexity of Sensory Input	Visual Movement	Impact of Lighting	Visual Novelty	Examples	
Extreme	extreme amount of competing background information in student’s visual field	intense, constant level of competing sensory input	intense level of movement in visual field	lighting in this environment prevents student from attending to task.	setting and/ or characteristics of setting may be highly unfamiliar	Array, sensory, and/or movement <i>greater than in typical, un-adapted general education classroom</i> (i.e. School cafeteria; gymnasium; crowded hallway)	
High	high amount of competing background information in student’s visual field	high level of steady, competing sensory input	frequent background movement in visual field	lighting in this environment is consistently distracting for student.	setting and/ or characteristics of setting may be unfamiliar	Array, Sensory and/or Movement <i>similar to or slightly less than that of a typical, un-adapted general education classroom</i>	
Moderate	low to moderate amount of competing background information in student’s visual field	low to moderate amount of competing sensory input at somewhat regular intervals	occasional background movement in visual field	lighting in this environment is occasionally distracting for student.	setting and/ or characteristics of setting are basically familiar	Array, sensory and/or movement <i>far less than in typical, un-adapted general education classroom</i> (i.e. generally quiet resource room with some competing visual information in child’s field)	
Minimal	no, or very little, competing background information in student’s visual field	quiet; no, or very infrequent, competing sensory input	no background movement in visual field	lighting in this environment does not seem to be distracting for student.	setting and/or characteristics of setting are very familiar	Array, sensory and/or movement <i>eliminated or nearly eliminated</i> (i.e. Quiet one-to-one setting with visual complexity reduced using black trifold boards or plain wall)	
What’s the Complexity?	Circle the complexity level for each of the 5 components that make up the environment. The highest circle determines the overall complexity level of the environment.						Characteristics from Roman-Lantzy, 2007

TASK RATING GUIDE								Figure 5
	Complexity of Object	Complexity of Array	Complexity of Sensory Inputs	Distance of Materials	Visual-Motor Demands	Visual Latency	Visual Novelty	
Frustrational	Targets are outside student’s ability to look at and interpret.	Array of materials outside student’s ability to look at, interpret and interact with.	Sensory demands of materials are outside student’s ability to look at, interpret, and maintain visual attention.	Distance of materials is outside student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are outside student’s ability.	Pacing of task is outside student’s ability to engage visually	Novelty of materials is outside student’s ability to look at and interpret.	
Challenging	Targets are at upper end of student’s ability to look at and interpret.	Array of materials at upper end of student’s ability to look at, interpret and interact with.	Sensory demands of materials are at the upper end of student’s ability to look at, interpret, and maintain visual attention.	Distance of materials is at upper end of student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are at upper end of student’s ability.	Pacing of task is at upper end of student’s ability to engage visually	Novelty of materials is at upper end of student’s ability to look at and interpret.	
Comfortable	Targets are well-within student’s ability to look at and interpret.	Array of materials well-within student’s ability to look at, interpret and interact with.	Sensory demands of materials are well-within student’s ability to look at, interpret, and maintain visual attention.	Distance of materials or target is well-within student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are well within student’s abilities.	Pacing of task is well within student’s ability to engage visually	Novelty of materials is well-within student’s ability to look at and interpret.	
Low Visual Demands	Low visual demands	Low visual demands	low visual demands	Low visual demands	Low visual demands	low visual demands	low visual demands	
What’s the Complexity?	Circle the level for each of the 7 components that make up the task. The highest circle determines the overall complexity level of the task.							Characteristics from Roman-Lantzy, 2007

“WHAT’S THE COMPLEXITY” FRAMEWORK

Ensuring Meaningful Access for Students with CVI

ENVIRONMENT RATING GUIDE

Figure 4

	Complexity of Array	Complexity of Sensory Input	Visual Movement	Impact of Lighting	Visual Novelty	Examples
Extreme	extreme amount of competing background information in student’s visual field	intense, constant level of competing sensory input	intense level of movement in visual field	lighting in this environment prevents student from attending to task.	setting and/ or characteristics of setting may be highly unfamiliar	Array, sensory, and/or movement greater than in typical, un-adapted general education classroom (i.e. School cafeteria; gymnasium; crowded hallway)
High	high amount of competing background information in student’s visual field	high level of steady, competing sensory input	frequent background movement in visual field	lighting in this environment is consistently distracting for student.	setting and/ or characteristics of setting may be unfamiliar	Array, Sensory and/or Movement similar to or slightly less than that of a typical, un-adapted general education classroom
Moderate	low to moderate amount of competing background information in student’s visual field	low to moderate amount of competing sensory input at somewhat regular intervals	occasional background movement in visual field	lighting in this environment is occasionally distracting for student.	setting and/ or characteristics of setting are basically familiar	Array, sensory and/or movement far less than in typical, un-adapted general education classroom (i.e. generally quiet resource room with some competing visual information in child’s field)
Minimal	no, or very little, competing background information in student’s visual field	quiet; no, or very infrequent, competing sensory input	no background movement in visual field	lighting in this environment does not seem to be distracting for student.	setting and/or characteristics of setting are very familiar	Array, sensory and/or movement eliminated or nearly eliminated (i.e. Quiet one-to-one setting with visual complexity reduced using black trifold boards or plain wall)

What’s the Complexity?

Circle the complexity level for each of the 5 components that make up the environment. The highest circle determines the overall complexity level of the environment.

Characteristics from Roman-Lantzy, 2007

“WHAT’S THE COMPLEXITY” FRAMEWORK

Ensuring Meaningful Access for Students with CVI

TASK RATING GUIDE							Figure 5
	Complexity of Object	Complexity of Array	Complexity of Sensory Inputs	Distance of Materials	Visual-Motor Demands	Visual Latency	Visual Novelty
Frustrational	Targets are outside student’s ability to look at and interpret.	Array of materials outside student’s ability to look at, interpret and interact with.	Sensory demands of materials are outside student’s ability to look at, interpret, and maintain visual attention.	Distance of materials is outside student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are outside student’s ability .	Pacing of task is outside student’s ability to engage visually	Novelty of materials is outside student’s ability to look at and interpret.
Challenging	Targets are at upper end of student’s ability to look at and interpret.	Array of materials at upper end of student’s ability to look at, interpret and interact with.	Sensory demands of materials are at the upper end of student’s ability to look at, interpret, and maintain visual attention.	Distance of materials is at upper end of student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are at upper end of student’s ability .	Pacing of task is at upper end of student’s ability to engage visually	Novelty of materials is at upper end of student’s ability to look at and interpret.
Comfortable	Targets are well-within student’s ability to look at and interpret.	Array of materials well-within student’s ability to look at, interpret and interact with.	Sensory demands of materials are well-within student’s ability to look at, interpret, and maintain visual attention.	Distance of materials or target is well-within student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are well within student’s abilities .	Pacing of task is well within student’s ability to engage visually	Novelty of materials is well-within student’s ability to look at and interpret.
Low Visual Demands	Low visual demands	Low visual demands	low visual demands	Low visual demands	Low visual demands	low visual demands	low visual demands

What’s the Complexity?

Circle the level for each of the 7 components that make up the task. The highest circle determines the overall complexity level of the task.

Characteristics from Roman-Lantzy, 2007

“WHAT’S THE COMPLEXITY” FRAMEWORK

Ensuring Meaningful Access for Students with CVI

TASK RATING GUIDE							Figure 5
	Complexity of Object	Complexity of Array	Complexity of Sensory Inputs	Distance of Materials	Visual-Motor Demands	Visual Latency	Visual Novelty
Frustrational	Targets are outside student's ability to look at and interpret.	Array of materials outside student's ability to look at, interpret and interact with.	Sensory demands of materials are outside student's ability to look at, interpret, and maintain visual attention.	Distance of materials is outside student's ability to look at, interpret, and maintain visual attention.	Visual-motor demands are outside student's ability .	Pacing of task is outside student's ability to engage visually	Novelty of materials is outside student's ability to look at and interpret.
Challenging	Targets are at upper end of student's ability to look at and interpret.	Array of materials at upper end of student's ability to look at, interpret and interact with.	Sensory demands of materials are at the upper end of student's ability to look at, interpret, and maintain visual attention.	Distance of materials is at upper end of student's ability to look at, interpret, and maintain visual attention.	Visual-motor demands are at upper end of student's ability .	Pacing of task is at upper end of student's ability to engage visually	Novelty of materials is at upper end of student's ability to look at and interpret.
Comfortable	Targets are well-within student's ability to look at and interpret.	Array of materials well-within student's ability to look at, interpret and interact with.	Sensory demands of materials are well-within student's ability to look at, interpret, and maintain visual attention.	Distance of materials or target is well-within student's ability to look at, interpret, and maintain visual attention.	Visual-motor demands are well within student's abilities .	Pacing of task is well within student's ability to engage visually	Novelty of materials is well-within student's ability to look at and interpret.
Low Visual Demands	Low visual demands	Low visual demands	low visual demands	Low visual demands	Low visual demands	low visual demands	low visual demands
What's the Complexity? _____							Circle the level for each of the 7 components that make up the task. The highest circle determines the overall complexity level of the task.

“WHAT’S THE COMPLEXITY” FRAMEWORK

Ensuring Meaningful Access for Students with CVI

TASK RATING GUIDE							Figure 5
	Complexity of Object	Complexity of Array	Complexity of Sensory Inputs	Distance of Materials	Visual-Motor Demands	Visual Latency	Visual Novelty
Frustrational	Targets are outside student’s ability to look at and interpret.	Array of materials outside student’s ability to look at, interpret and interact with.	Sensory demands of materials are outside student’s ability to look at, interpret, and maintain visual attention.	Distance of materials is outside student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are outside student’s ability .	Pacing of task is outside student’s ability to engage visually	Novelty of materials is outside student’s ability to look at and interpret.

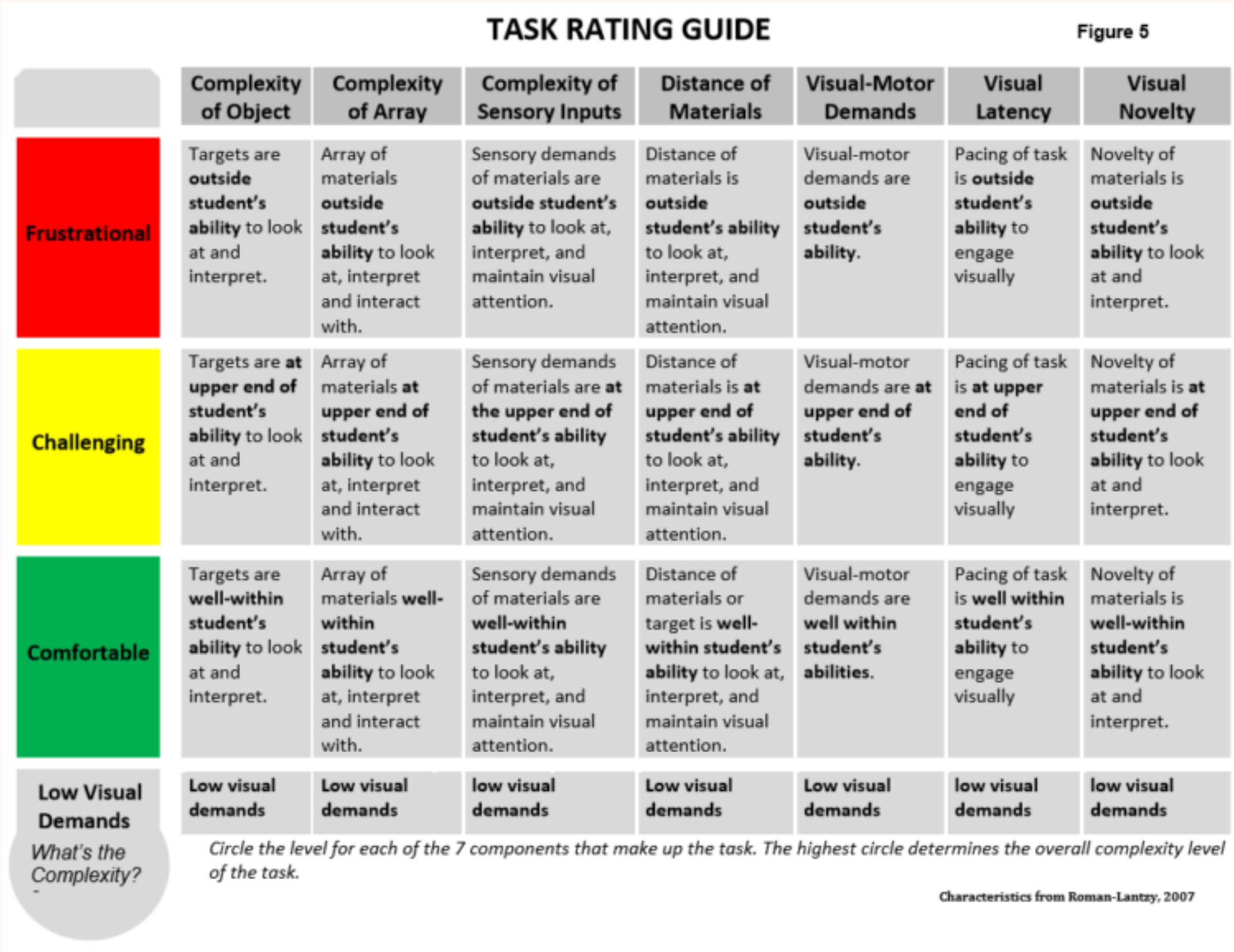
“WHAT’S THE COMPLEXITY” FRAMEWORK

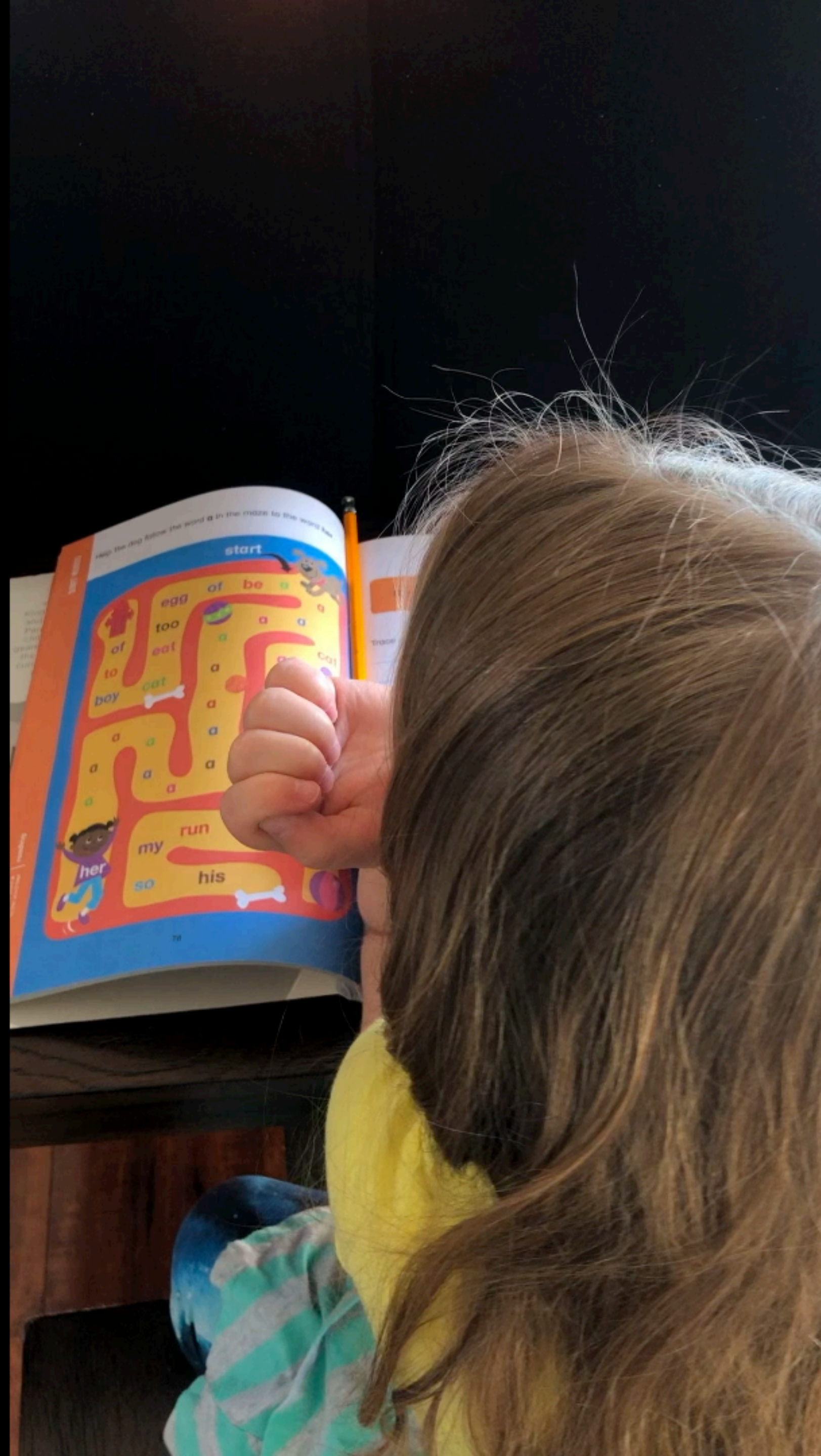
Ensuring Meaningful Access for Students with CVI

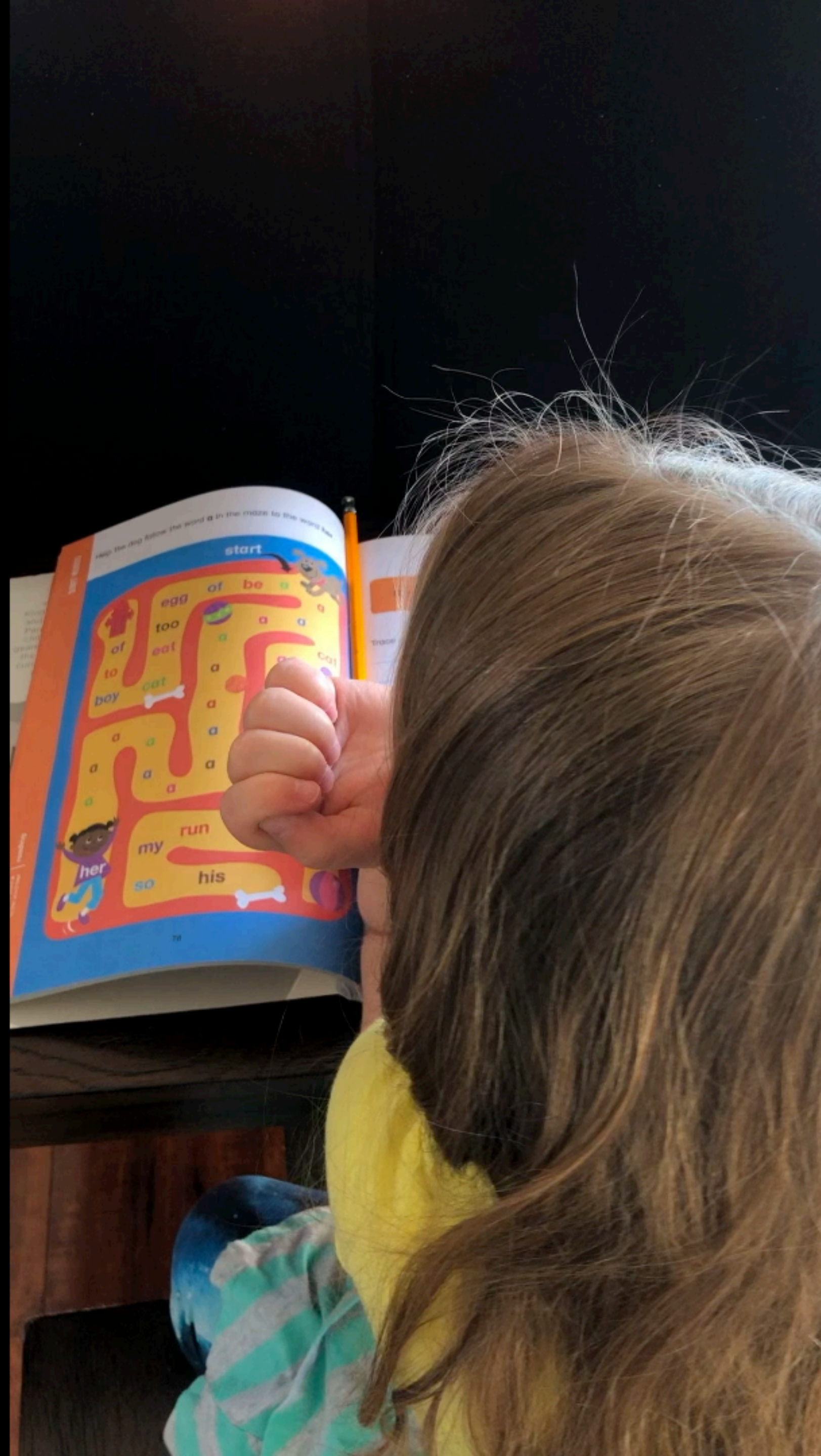
TASK RATING GUIDE							Figure 5
	Complexity of Object	Complexity of Array	Complexity of Sensory Inputs	Distance of Materials	Visual-Motor Demands	Visual Latency	Visual Novelty
Frustrational	Targets are outside student’s ability to look at and interpret.	Array of materials outside student’s ability to look at, interpret and interact with.	Sensory demands of materials are outside student’s ability to look at, interpret, and maintain visual attention.	Distance of materials is outside student’s ability to look at, interpret, and maintain visual attention.	Visual-motor demands are outside student’s ability .	Pacing of task is outside student’s ability to engage visually	Novelty of materials is outside student’s ability to look at and interpret.

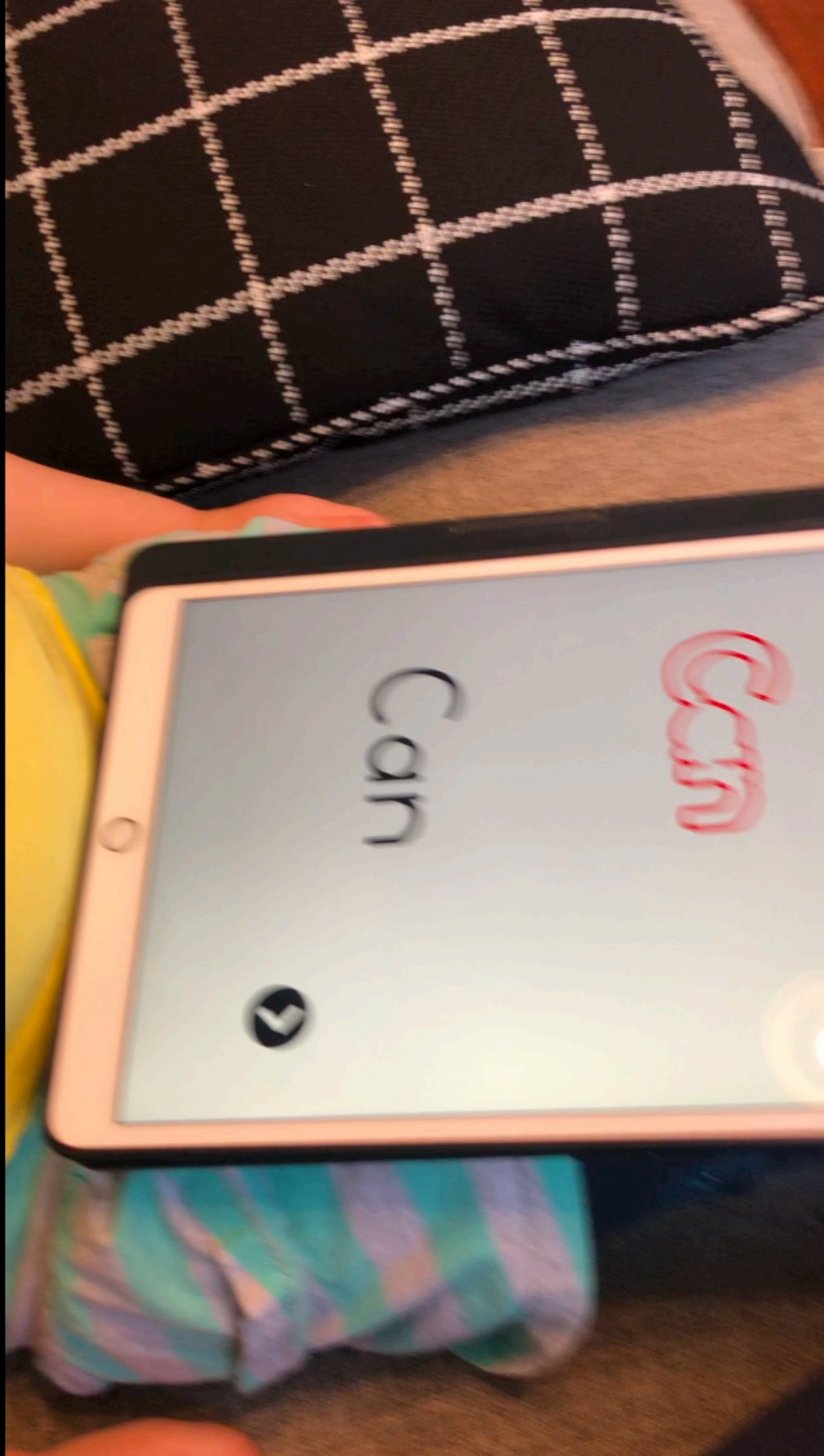
“WHAT’S THE COMPLEXITY” FRAMEWORK

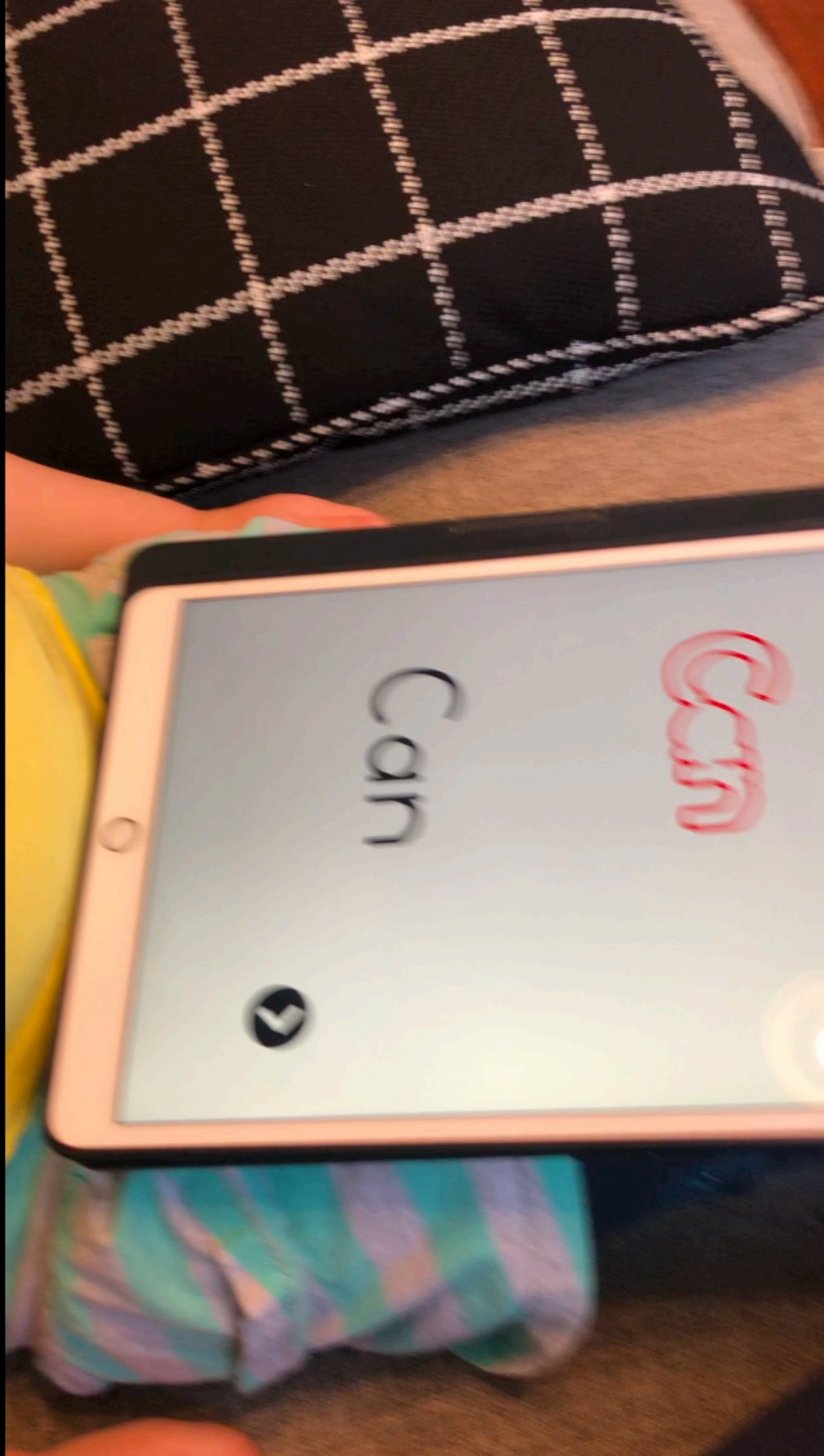
Ensuring Meaningful Access for Students with CVI











ASSIGNED TASK



**Align Content to meet student need by
modifying curriculum**



**Align Visual Input to meet student need by
accommodating images and text**



ASSIGNED TASK



**Align Content to meet student need by
modifying curriculum**



**Align Visual Input to meet student need by
accommodating images and text**



Instruction

ASSIGNED TASK



Align Content to meet student need by
modifying curriculum



Align Visual Input to meet student need by
accommodating images and text



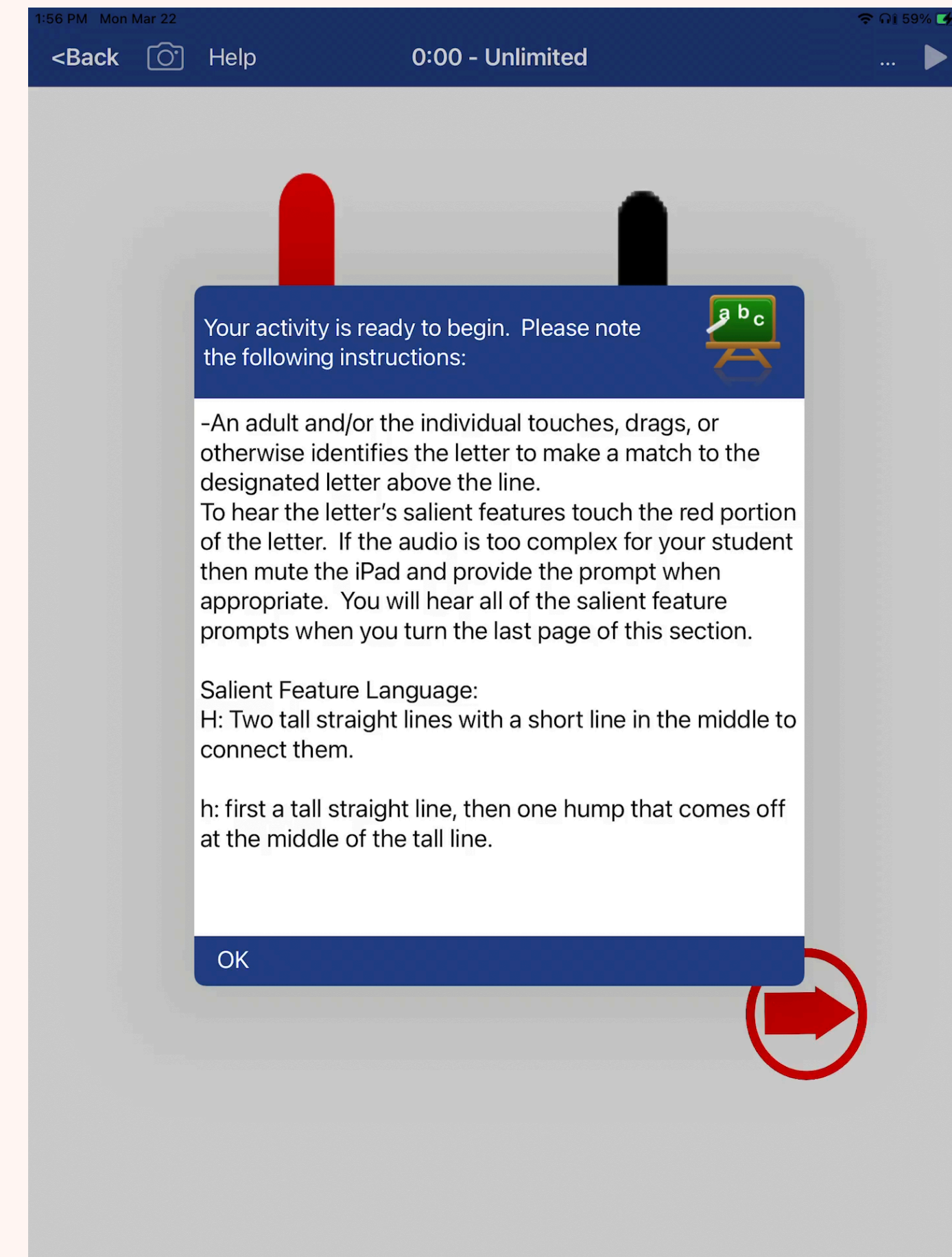
Instruction



ACCESS FOR CVI LEARNER

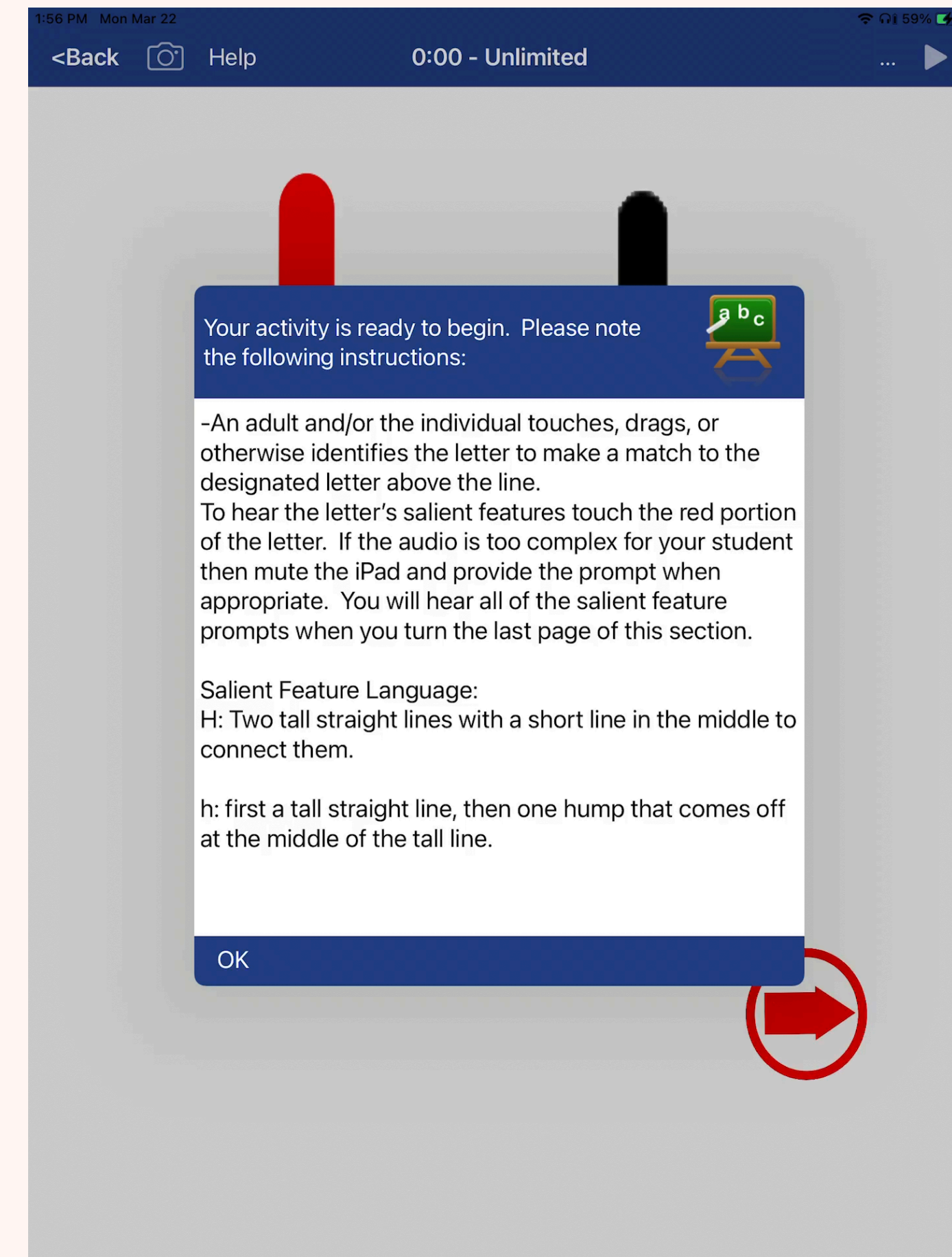
INSTRUCTION

- **EXPLICIT Instruction**
- **Specialized instruction to learn how to utilize the accessible materials**



INSTRUCTION

- **EXPLICIT Instruction**
- **Specialized instruction to learn how to utilize the accessible materials**



STUDENT #1

Ensuring Meaningful Access for Students with CVI

STUDENT #1

Ensuring Meaningful Access for Students with CVI

Sample Student: Ahmed

- **Color: (.5)** Highly saturated colors, fluorescent colors promote visual attention Specific color preference is fading **Color highlighting of salient 3-D or 2-D features is necessary**
- **Movement: (.75)** Movement occasionally necessary to elicit visual attention
- **Latency: (.5)** Latency occurs about half of the time the individual is attempting to visually attend Latency may be a sign of visual fatigue or over stimulation
- **Fields: (.5)** Visual fixations occur in two lateral fields + emerging or actual visual fixation in one additional lateral field
- **Complexity**
 - **Object (.75)** Visual fixations (and object recognition or identification) on objects/images that have 4+ colors/patterns on surface **2-dimensional images without backlighting are now accessible**
 - **Array: (.5)** Visual fixations occur on objects presented against backgrounds with 2-3 color pattern backgrounds **Simple 2-dimensional images detected** against a background of 3-4 additional elements
 - **Sensory (.5)** Visual fixations occur even when average intensity familiar or novel sensory inputs exist. At times, more than one sensory input may be tolerated without loss of visual attention
 - **Faces (.75)** Eye to eye contact with most people. May be less attention to the faces of new or unfamiliar people Typical responses to mirror image
- **Light: (.75)** Attention on primary sources of light occurs only when the individual is tired, stressed, over-stimulated, or ill
- **Distance: (.5)** Visually locates and fixates on any **target at distances up to 6 feet**. Occasional visual attention on large moving targets (including people) may occur at 10 feet
- **Reflexes: (1.0)** Blink to touch at the bridge of the nose consistently present. Blink to the visual threat present commensurate with the age of the individual
- **Novelty: (.5)** Visual fixations on familiar objects, objects that are visually similar to familiar objects, and with novel objects after several exposures to the new object Visual attention may occur with novel 3 dimensional or some 2 dimensional materials but the individual is unable to “interpret” the visual display Occasional visual curiosity occurs in novel environments
- **Visually Guided Reach: (.5)** Look and reach occur as a single action when background is controlled and/or the target is 3 dimensional + shiny or moving

WHICH ACTIVITY?

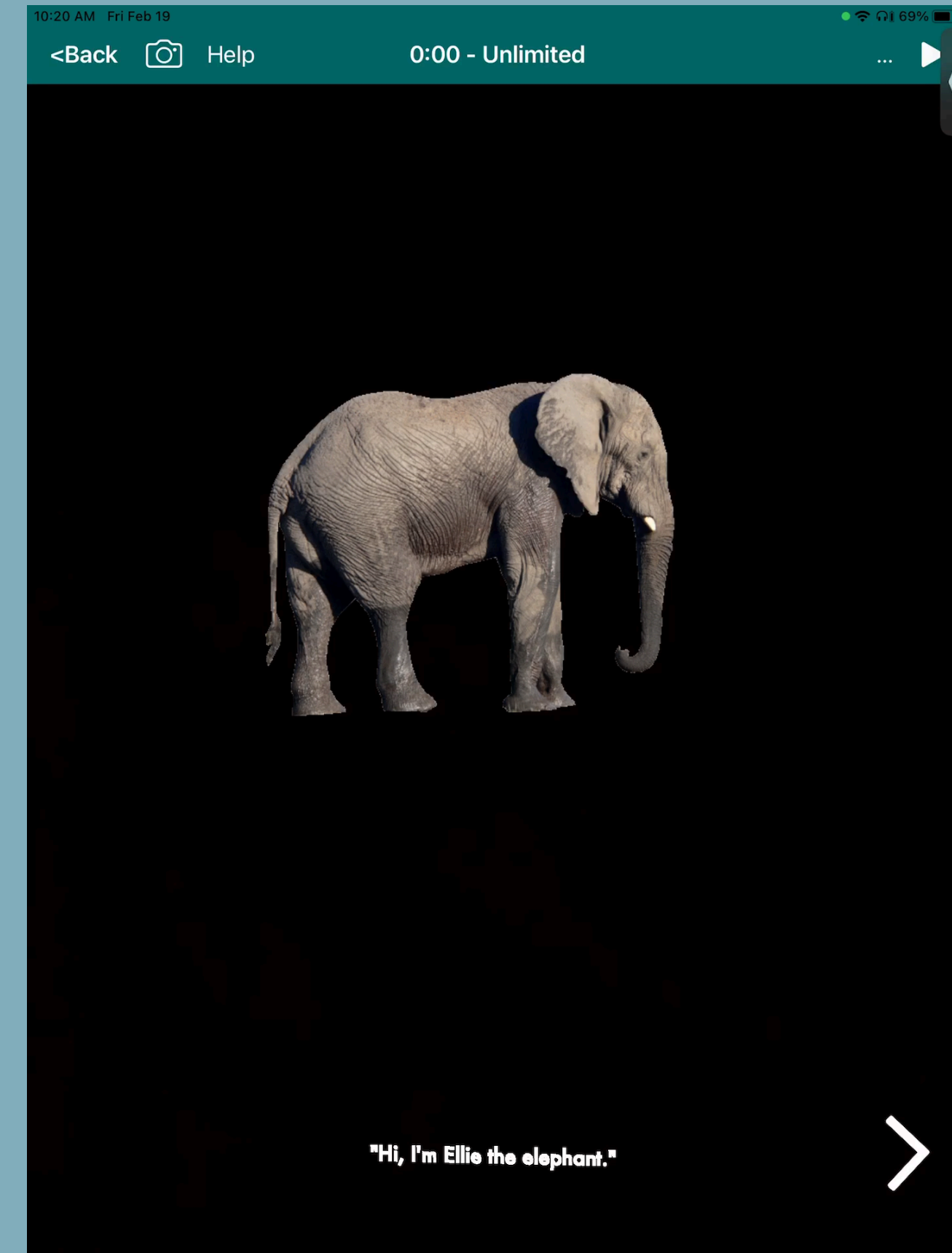
Ensuring Meaningful Access for Students with CVI

- A. No visual accommodations needed, he will participate using auditory and tactile input.**
- B. Multiple occasions before the trip, show Ahmed toy animals that he may see at the zoo. Present on a Lightbox with a highly controlled background. Bring toy animals to the zoo to hand to Ahmed throughout the day.**
- C. Multiple occasions prior to the zoo field trip day, present real photographs to highlight salient features of different animals. Present on a tablet and add movement as necessary. Bring tablet to the zoo the day of the field trip.**
- D. Show printed pictures of various animals. Bring device to the zoo; take pictures of animals and zoom in.**

WHICH ACTIVITY?

Ensuring Meaningful Access for Students with CVI

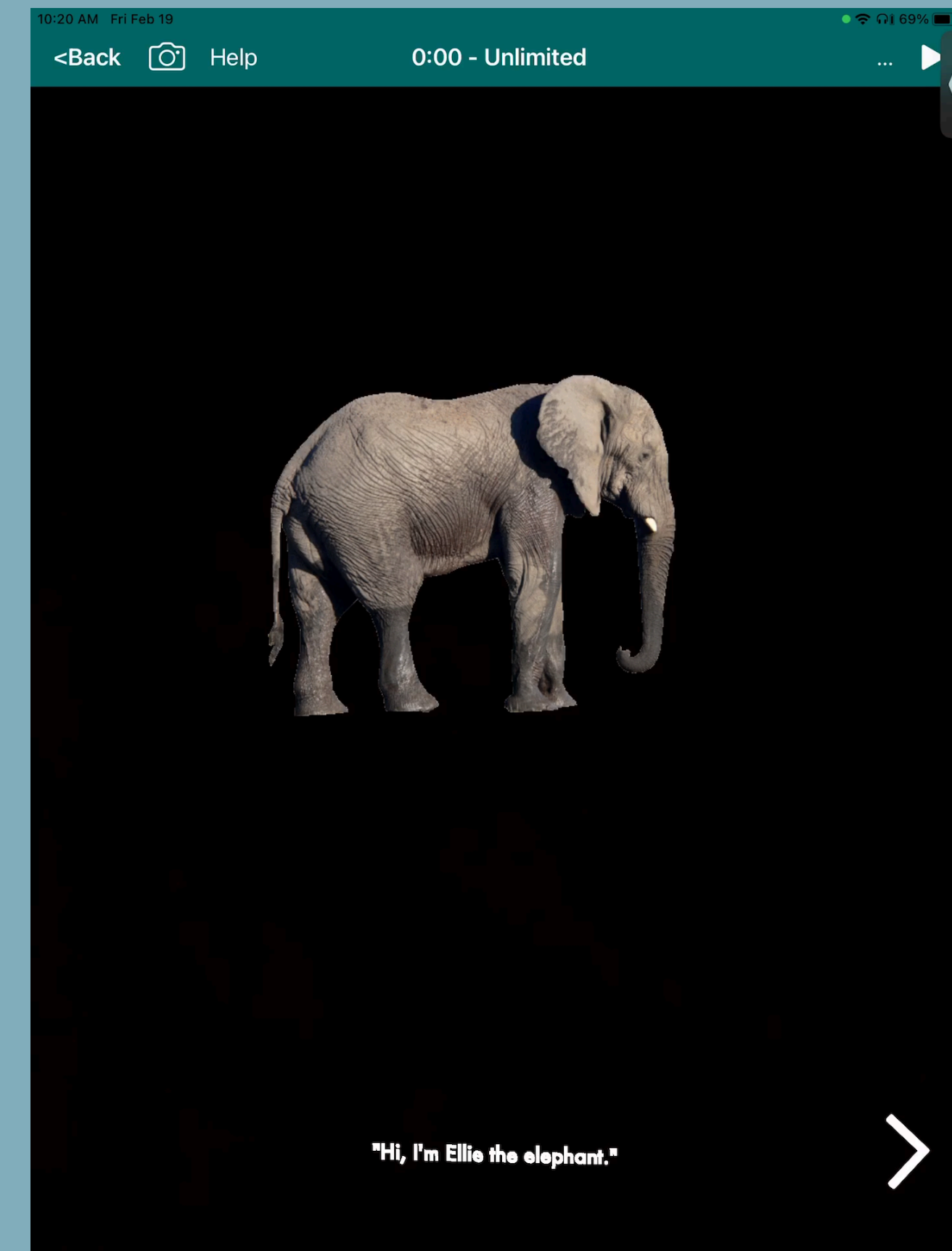
C. Multiple occasional prior to the zoo field trip day, present real photographs to highlight salient features of different animals. Present on a tablet and add movement as necessary. Bring tablet to the zoo the day of the field trip.



WHICH ACTIVITY?

Ensuring Meaningful Access for Students with CVI

C. Multiple occasional prior to the zoo field trip day, present real photographs to highlight salient features of different animals. Present on a tablet and add movement as necessary. Bring tablet to the zoo the day of the field trip.



STUDENT #2

Ensuring Meaningful Access for Students with CVI

STUDENT #2

Ensuring Meaningful Access for Students with CVI

Sample Student: Isabella

- **Color: (.0)** Attends to a **single**, preferred color (**yellow**)
- **Movement: (.0)** Attends only to objects that are **moving or that have reflective properties** May notice ceiling fan
- **Latency: (.0)** Prolonged periods of latency each time an object is presented or each time the individual attempts to visually regard a target
- **Fields: (.25)** Localization or brief fixations in original “preferred” field of view + emerging or actual visual attention in one additional lateral field
- **Complexity**
 - **Object (.0)** Visual attention/brief localizations on **single-color objects**
 - **Array: (.25)** Visual localizations or brief fixations occur when objects are presented against a black background in a naturally lit or near naturally lit room
 - **Sensory (.25)** Visual localizations or brief fixations occur even when low intensity, familiar sounds or other single sensory inputs are present
 - **Faces (.0)** No visual attention on faces
- **Light: (.25)** Visual localization or fixation primarily begins with attention to **lighted properties** of objects. May orient to primary sources of light but can be redirected to other targets when environmental lighting is reduced or adjusted May defend by closing eyes briefly or latently to direct input of intense light Visual attention occurs with objects paired with light
- **Distance: (.0)** Visually localizes on targets presented within 12” of face
- **Reflexes: (.25)** Intermittent or latent blink to touch at the bridge of the nose. No blink in response to the visual threat
- **Novelty: (.0)** Visual attention, brief localization occurs with highly familiar objects No visual curiosity
- **Visually Guided Reach: (.0)** Look and reach always completes as separate actions; look-look away-reach

WHICH ACTIVITY?

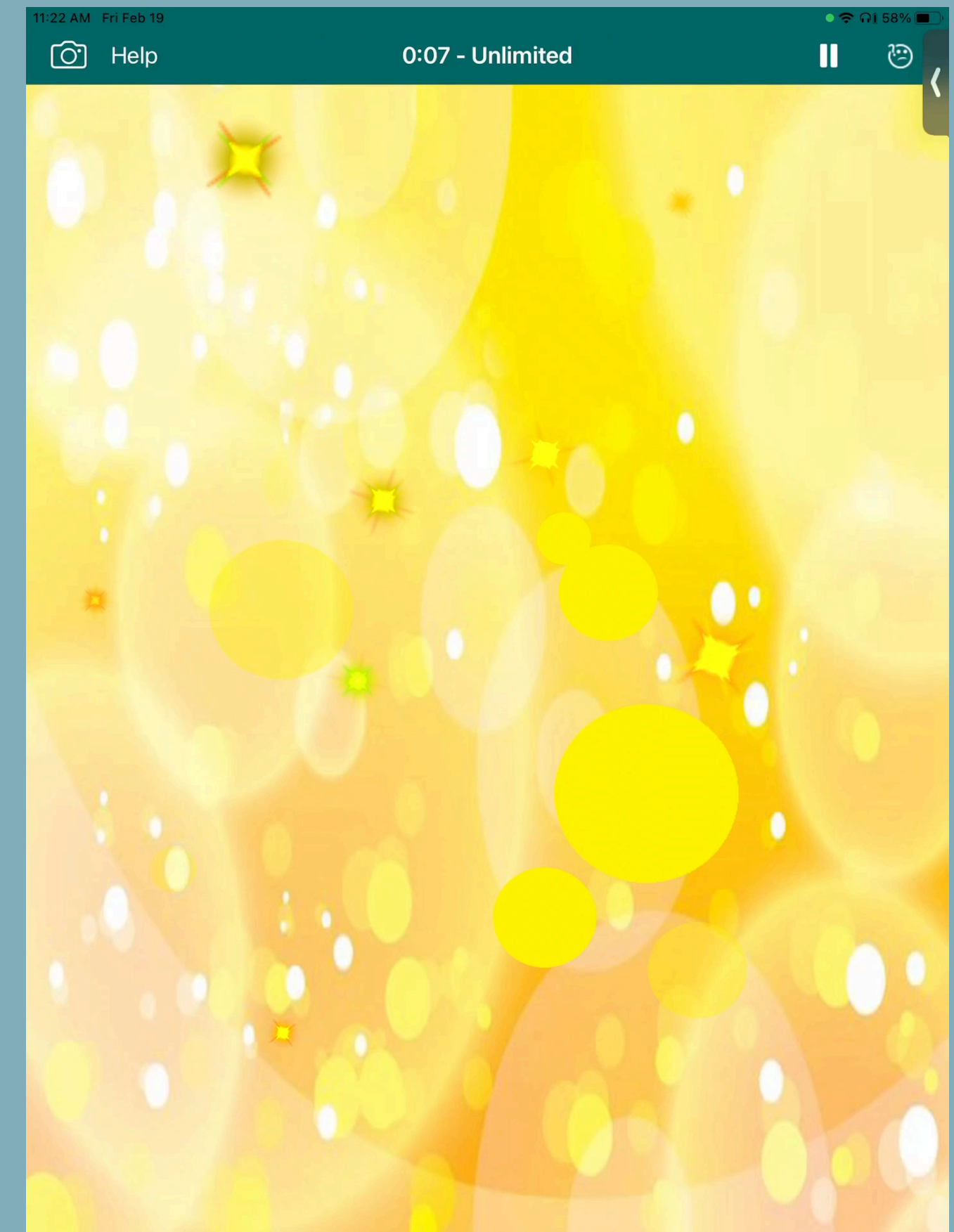
Ensuring Meaningful Access for Students with CVI

- A. No visual accommodations are necessary, she will participate in school with either tactile or auditory modalities**
- B. The team should provide a schedule for each positioning opportunity. Select a yellow, moving, visual target and present on Isabella's right side.**
- C. Use yellow or gold shiny material on the switch. Shine a flashlight (gently move) from behind the student onto the switch to encourage her use her vision to locate the switch before hitting.**
- D. Use yellow letters with glitter on them to teach her the letter of the week with her peers.**

WHICH ACTIVITY?

Ensuring Meaningful Access for Students with CVI

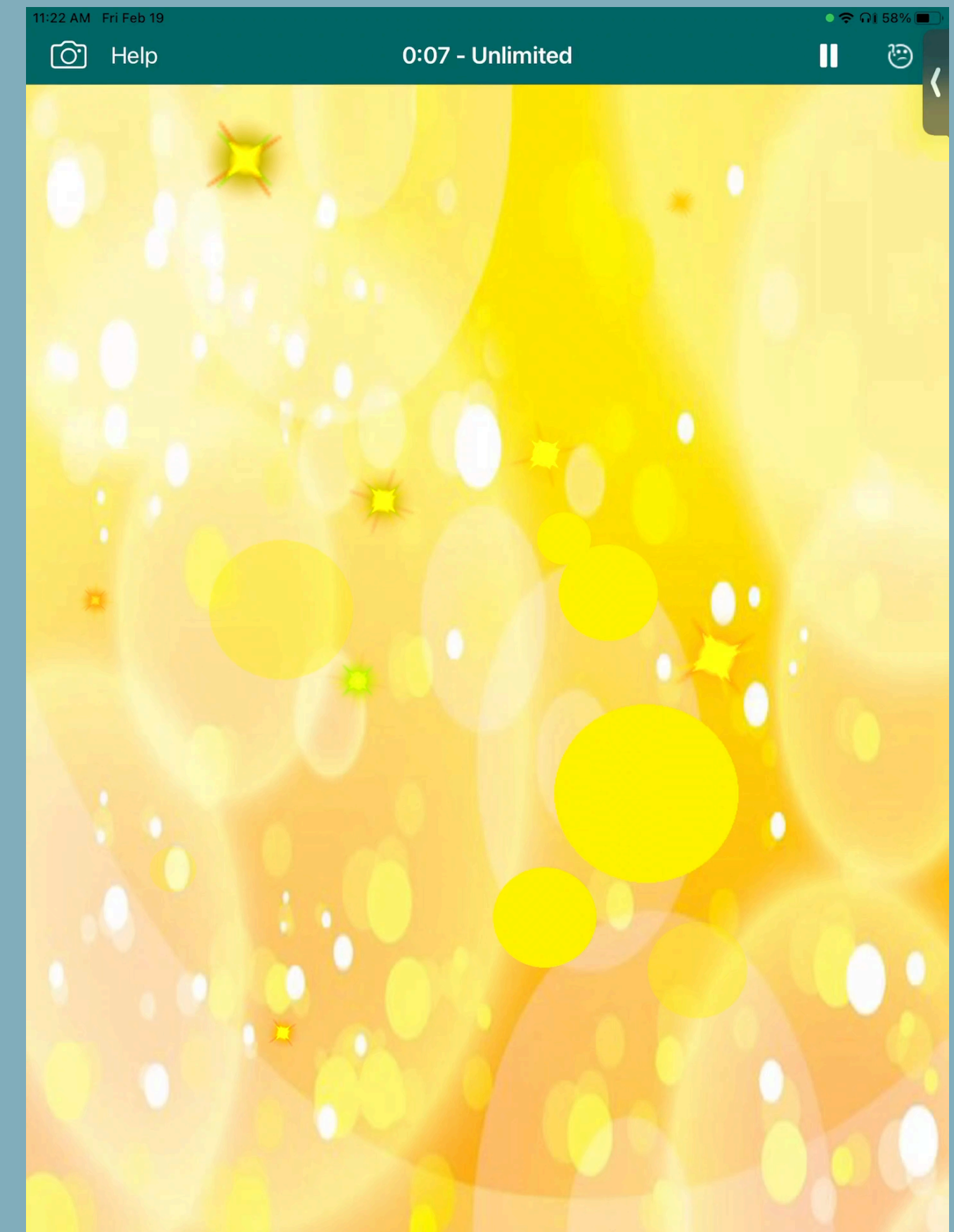
B. The team should provide a schedule for each positioning opportunity. Select a yellow, moving, visual target and present on Isabella's right side.



WHICH ACTIVITY?

Ensuring Meaningful Access for Students with CVI

B. The team should provide a schedule for each positioning opportunity. Select a yellow, moving, visual target and present on Isabella's right side.



STUDENT #3

Ensuring Meaningful Access for Students with CVI

STUDENT #3

Ensuring Meaningful Access for Students with CVI

Sample Student: Alex

- **Color: (1.0)** Color is no more important for visual attention than for other individuals of the same age
- **Movement: (1.0)** Movement is not necessary to elicit or hold visual attention Movement will alert the individual but not “captivate”
- **Latency: (.75)** Latency occurs primarily when the individual is hungry, tired, over stimulated, post seizure. Latency occurs rarely
- **Fields: (.75)** Visual fixations occur and are stable in three visual field positions. Lower visual field function may be atypical
- **Complexity**
 - **Object (.75)** Visual fixations (and object recognition or identification) on objects/images that have **4+ colors/patterns on surface** 2-dimensional images without backlighting are now accessible
 - **Array: (.75)** Visual fixations occur on 3-dimensional targets against highly patterned backgrounds Two-dimensional target images detected against a background of up to **20 additional elements**
 - **Sensory (.75)** Visual fixations occur even when multiple, competing familiar sensory inputs exist. Visual attention or the ability to locate a single target may be compromised when the individual is in a novel setting with multiple, competing sensory inputs
 - **Faces (1)** Visual attention (with eye to eye contact) on the human face is present in all social interactions.
- **Light: (.75)** Attention on primary sources of light occurs only when the individual is tired, stressed, over-stimulated, or ill
- **Distance: (.75)** Visually locates and fixates on a specific target in a familiar or novel setting at distances up to 10 feet May demonstrate visual attention on large moving targets at distances as great as 15-20 feet
- **Reflexes: (1)** Blink to touch at the bridge of the nose consistently present. Blink to the visual threat present commensurate with the age of the individual
- **Novelty: (.75)** New objects or images are visually discriminated, recognized, or **identified based on salient**, defining features Visual curiosity occurs in most new environments
- **Visually Guided Reach: (1)** Visually direct reach occurs commensurate with the age of the individual If upper-extremity motor limitations, look + reach occur together even if motor planning requires additional time

WHICH ACTIVITY?

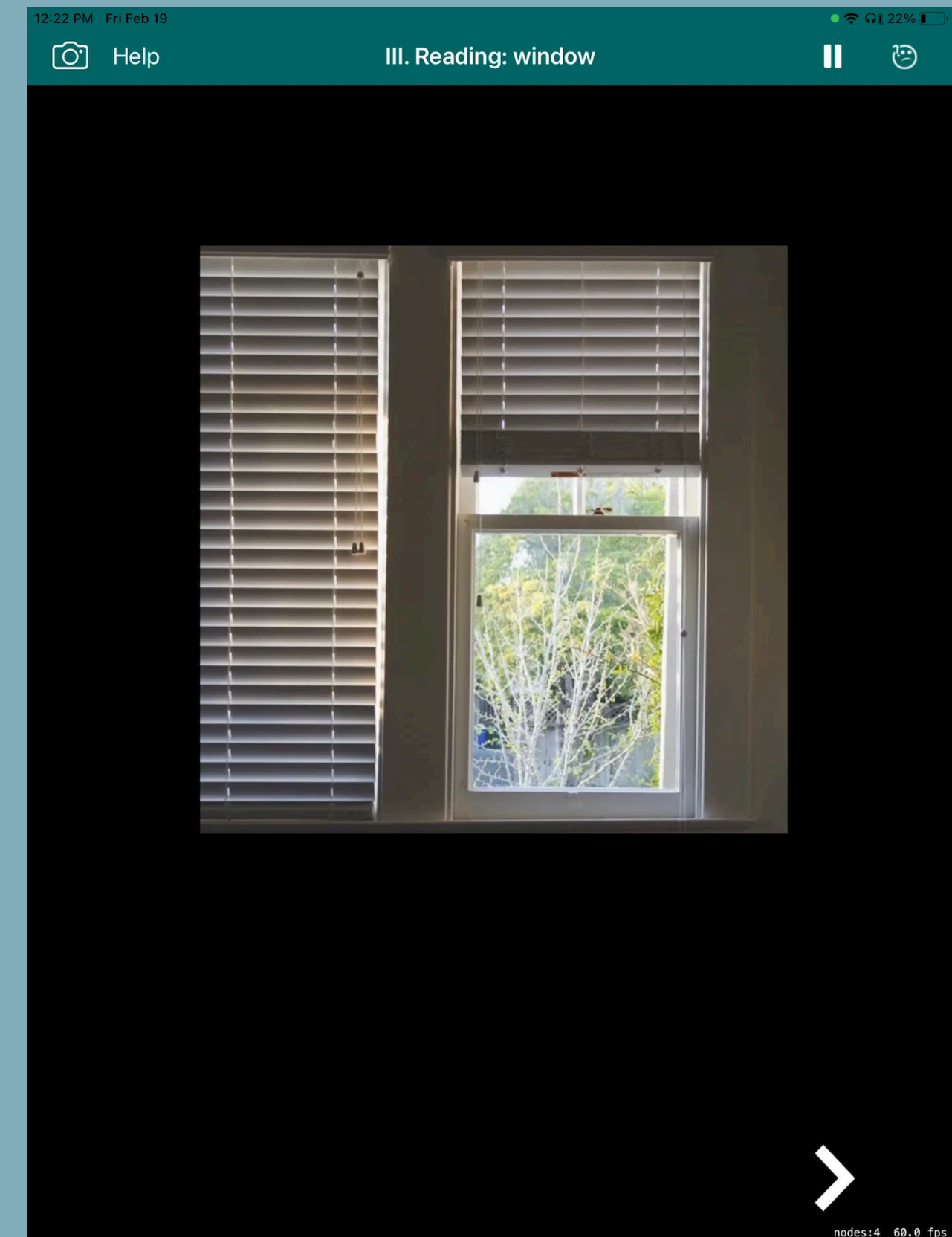
Ensuring Meaningful Access for Students with CVI

- A. No visual accommodations are necessary. Alex will participate with only auditory and tactile modalities.**
- B. Isolate the goal word and teach Alex the salient features. Begin to integrate the word into sentences, only highlight the goal word. Eventually removing all highlight accommodations when Alex is ready.**
- C. Present text on a backlit device with movement and highly controlled environment. Utilize Dr Roman's word bubbling to highlight every word in the sentence.**
- D. Provide Alex with a hard copy of a book that addresses the goal word. Words may be presented with pictures in the background without additional modifications.**

WHICH ACTIVITY?

Ensuring Meaningful Access for Students with CVI

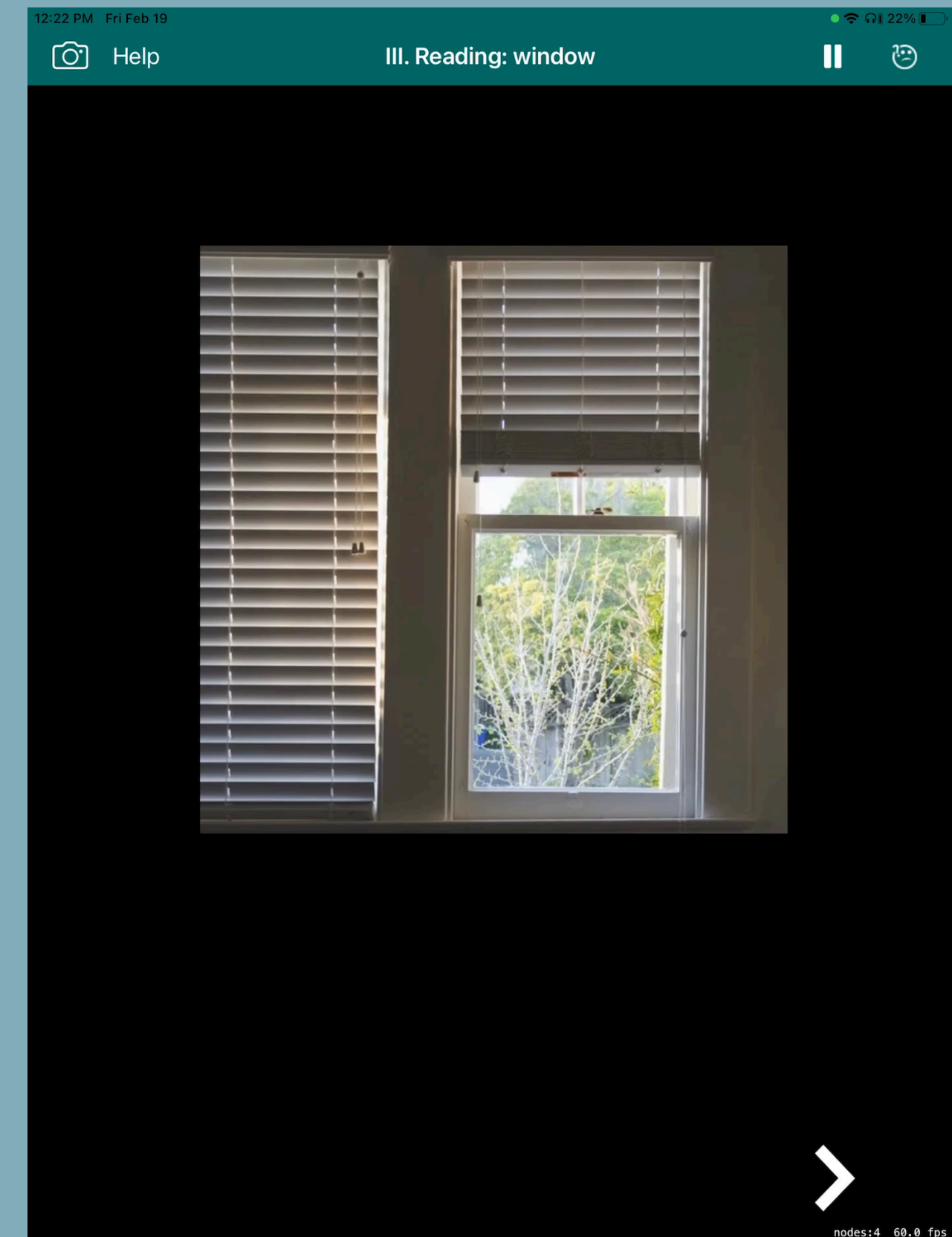
B. Isolate the goal word and teach Alex the salient features. Begin to integrate the word into sentences, only highlight the goal word. Eventually removing all highlight accommodations when Alex is ready.



WHICH ACTIVITY?

Ensuring Meaningful Access for Students with CVI

B. Isolate the goal word and teach Alex the salient features. Begin to integrate the word into sentences, only highlight the goal word. Eventually removing all highlight accommodations when Alex is ready.



IMPLEMENTATION

Ensuring Meaningful Access for Students with CVI

Have you considered:

	Does the activity require modifications ?
	What are the goals of your student's CVI Phase ?
	What are your student's IEP goals ?
	What learning media is most appropriate?
	Does the accommodation match the CVI Range score?
	"What's The Complexity" of the environment and the task ?
	Who on the team is responsible for accommodating materials?
	Is specialized instruction (pre-teaching) needed: Who is responsible? When will it take place?
	What does the environment look like where the instruction will take place? (Noises, textures, lights, etc)
	Where is your student sitting in regard to presentation of material?
	Does positioning impact the student?

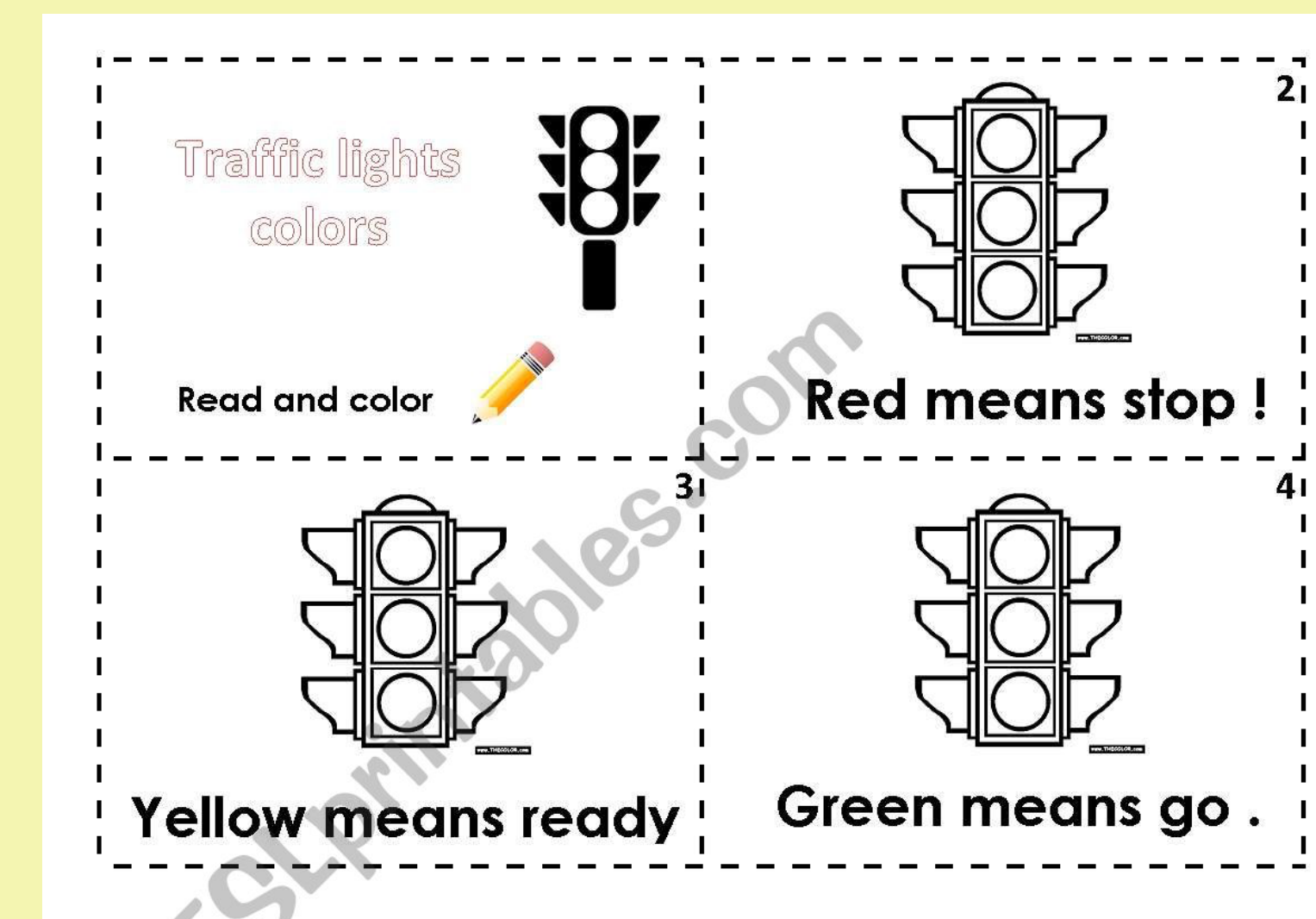
CVI Range, Characteristics, and Phases from Roman-Lantzy
"What's the Complexity" Framework from Matt Tietjen

ACTIVITY PURPOSE

Ensuring Meaningful Access for Students with CVI

- What would you do for a Phase I student?

	Does the activity require modifications?
	What are the goals of your student's CVI Phase?
	What are your student's IEP goals?
	What learning media is most appropriate?
	Does the accommodation match the CVI Range score?
	"What's The Complexity" of the environment and the task?
	Who on the team is responsible for accommodating materials?
	Is specialized instruction (pre-teaching) needed: Who is responsible? When will it take place?
	What does the environment look like where the instruction will take place? (Noises, textures, lights, etc)
	Where is your student sitting in regard to presentation of material?
	Does positioning impact the student?



ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY PURPOSE

Ensuring Meaningful Access for Students with CVI


- What would you do for a Early Phase II student?

	Does the activity require modifications?
	What are the goals of your student’s CVI Phase?
	What are your student’s IEP goals?
	What learning media is most appropriate?
	Does the accommodation match the CVI Range score?
	“What’s The Complexity” of the environment and the task?
	Who on the team is responsible for accommodating materials?
	Is specialized instruction (pre-teaching) needed: Who is responsible? When will it take place?
	What does the environment look like where the instruction will take place? (Noises, textures, lights, etc)
	Where is your student sitting in regard to presentation of material?
	Does positioning impact the student?

Name _____

Create a Constellation!

The sky is filled with stars tonight. Connect stars to make your own constellation. It can be any shape that you would like! You don't have to use all of the stars.



My constellation is called _____.

It is in the shape of a _____.

I chose this shape for my constellation because _____

ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY PURPOSE


Ensuring Meaningful Access for Students with CVI


- **What would you do for a Late Phase II student?**

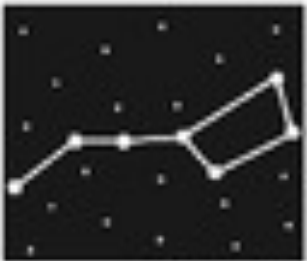
	Does the activity require modifications?
	What are the goals of your student’s CVI Phase?
	What are your student’s IEP goals?
	What learning media is most appropriate?
	Does the accommodation match the CVI Range score?
	“What’s The Complexity” of the environment and the task?
	Who on the team is responsible for accommodating materials?
	Is specialized instruction (pre-teaching) needed: Who is responsible? When will it take place?
	What does the environment look like where the instruction will take place? (Noises, textures, lights, etc)
	Where is your student sitting in regard to presentation of material?
	Does positioning impact the student?

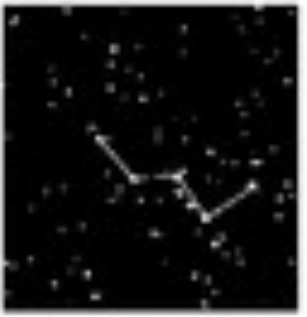
Name: _____ Date: _____

Constellations









Word Bank: Big Dipper, Little Dipper, Great Bear, Cassiopeia

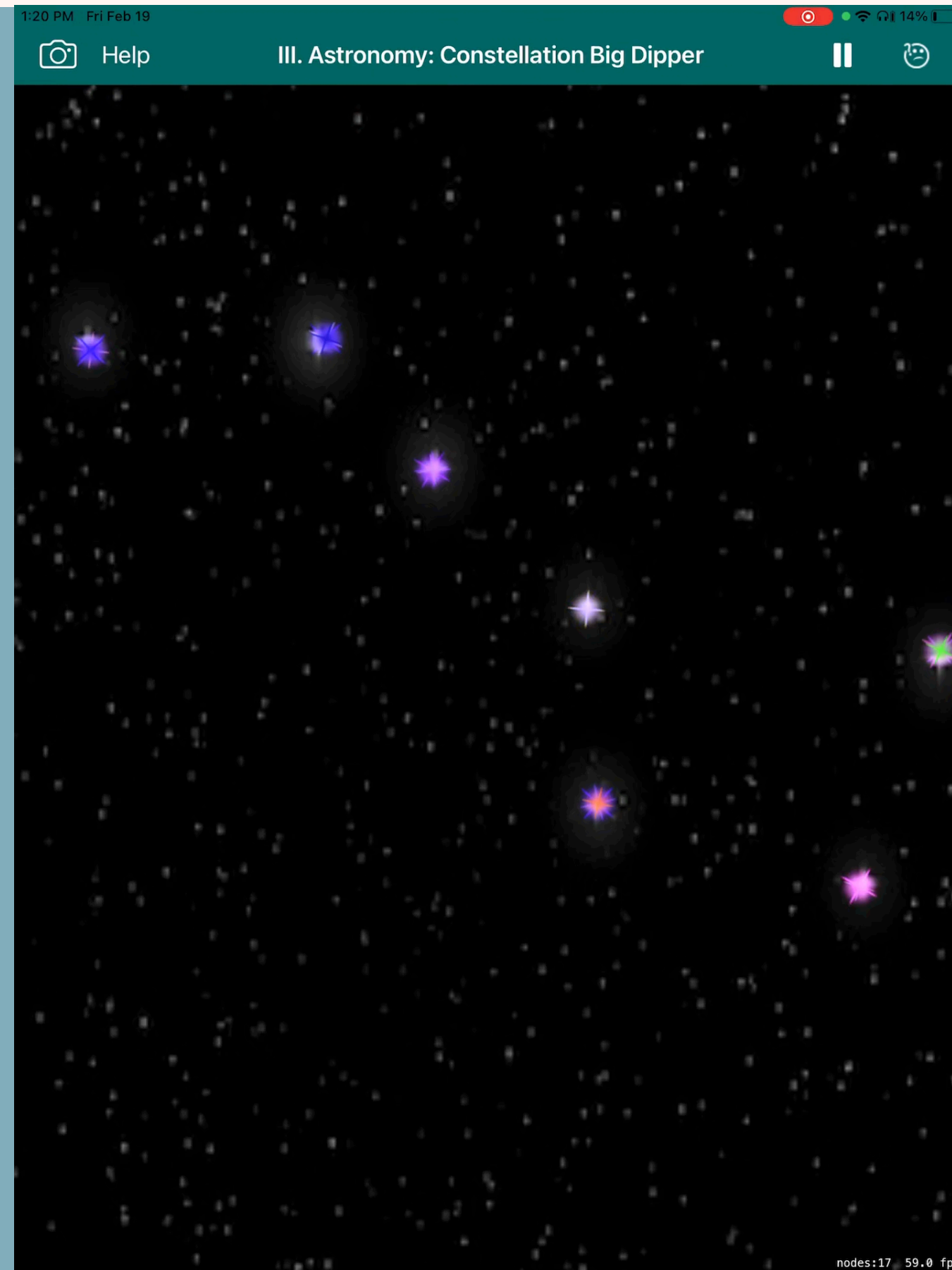
ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY PURPOSE

Ensuring Meaningful Access for Students with CVI

- **What would you do for a Late Phase II student?**

	Does the activity require modifications?
	What are the goals of your student's CVI Phase?
	What are your student's IEP goals?
	What learning media is most appropriate?
	Does the accommodation match the CVI Range score?
	"What's The Complexity" of the environment and the task?
	Who on the team is responsible for accommodating materials?
	Is specialized instruction (pre-teaching) needed: Who is responsible? When will it take place?
	What does the environment look like where the instruction will take place? (Noises, textures, lights, etc)
	Where is your student sitting in regard to presentation of material?
	Does positioning impact the student?



CVI Range, Characteristics, and Phases from Roman-Lantzy
"What's the Complexity" Framework from Matt Tietjen

ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY

Ensuring Meaningful Access for Students with CVI

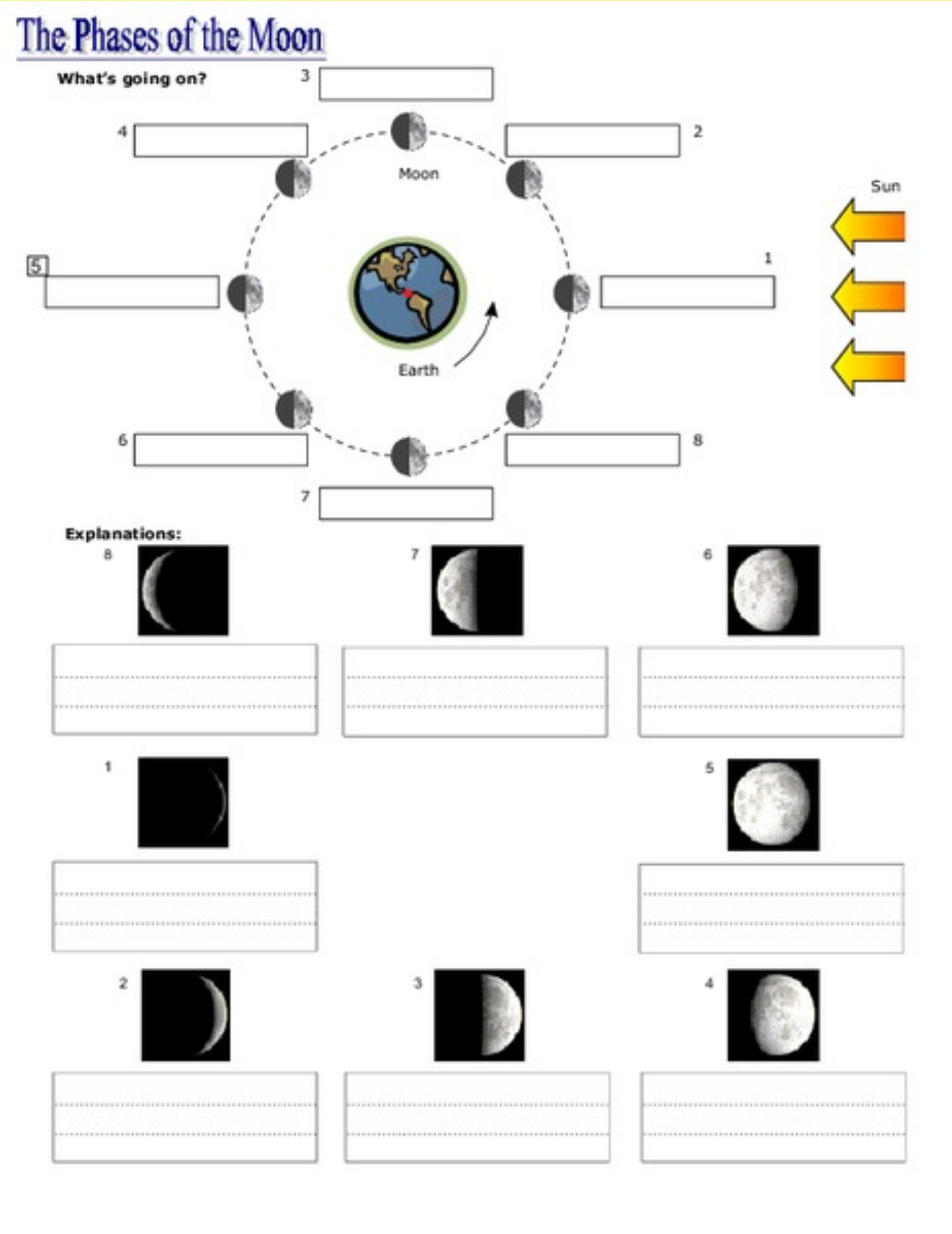


ACTIVITY PURPOSE

Ensuring Meaningful Access for Students with CVI

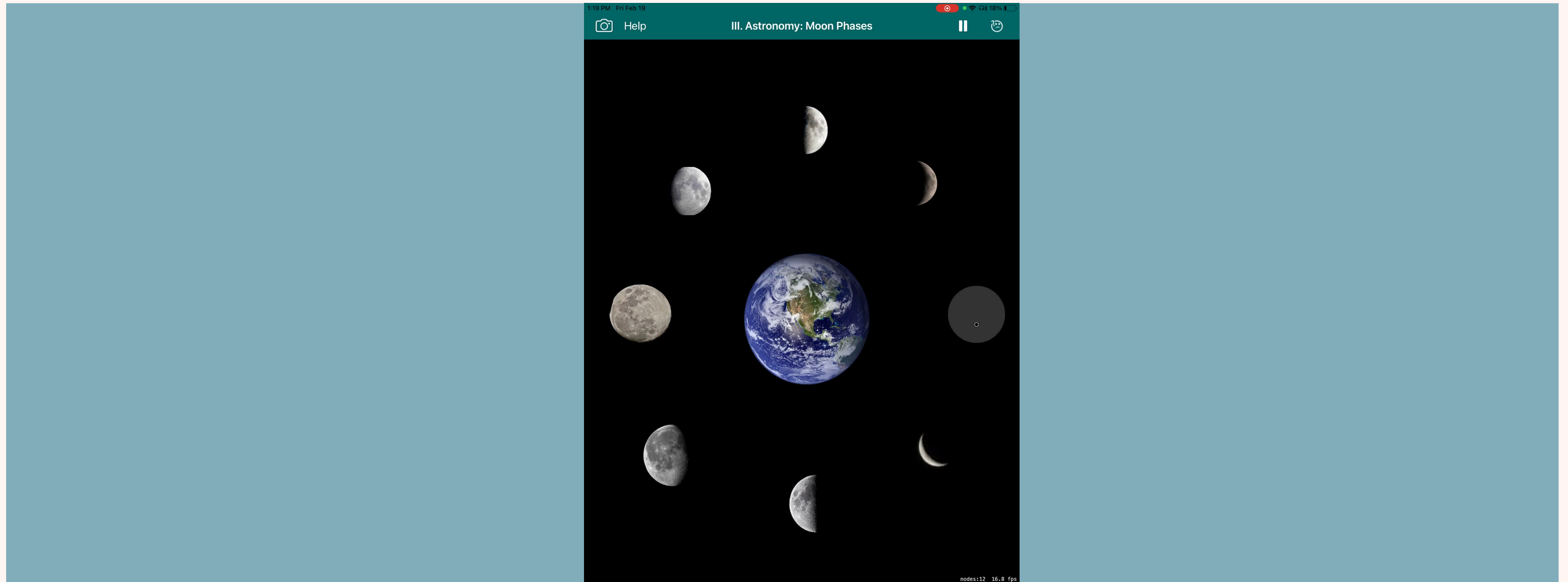
- What would you do for a Phase III student?

	Does the activity require modifications?
	What are the goals of your student’s CVI Phase?
	What are your student’s IEP goals?
	What learning media is most appropriate?
	Does the accommodation match the CVI Range score?
	“What’s The Complexity” of the environment and the task?
	Who on the team is responsible for accommodating materials?
	Is specialized instruction (pre-teaching) needed: Who is responsible? When will it take place?
	What does the environment look like where the instruction will take place? (Noises, textures, lights, etc)
	Where is your student sitting in regard to presentation of material?
	Does positioning impact the student?



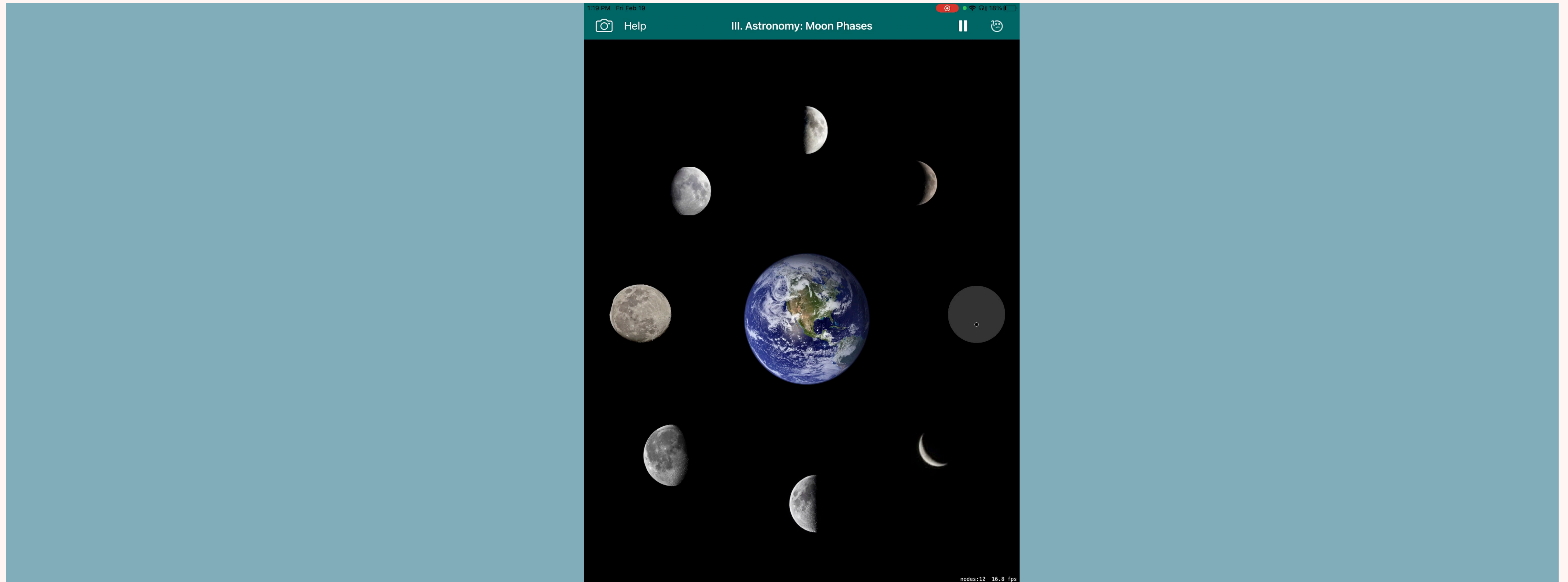
ACTIVITY

Ensuring Meaningful Access for Students with CVI



ACTIVITY

Ensuring Meaningful Access for Students with CVI



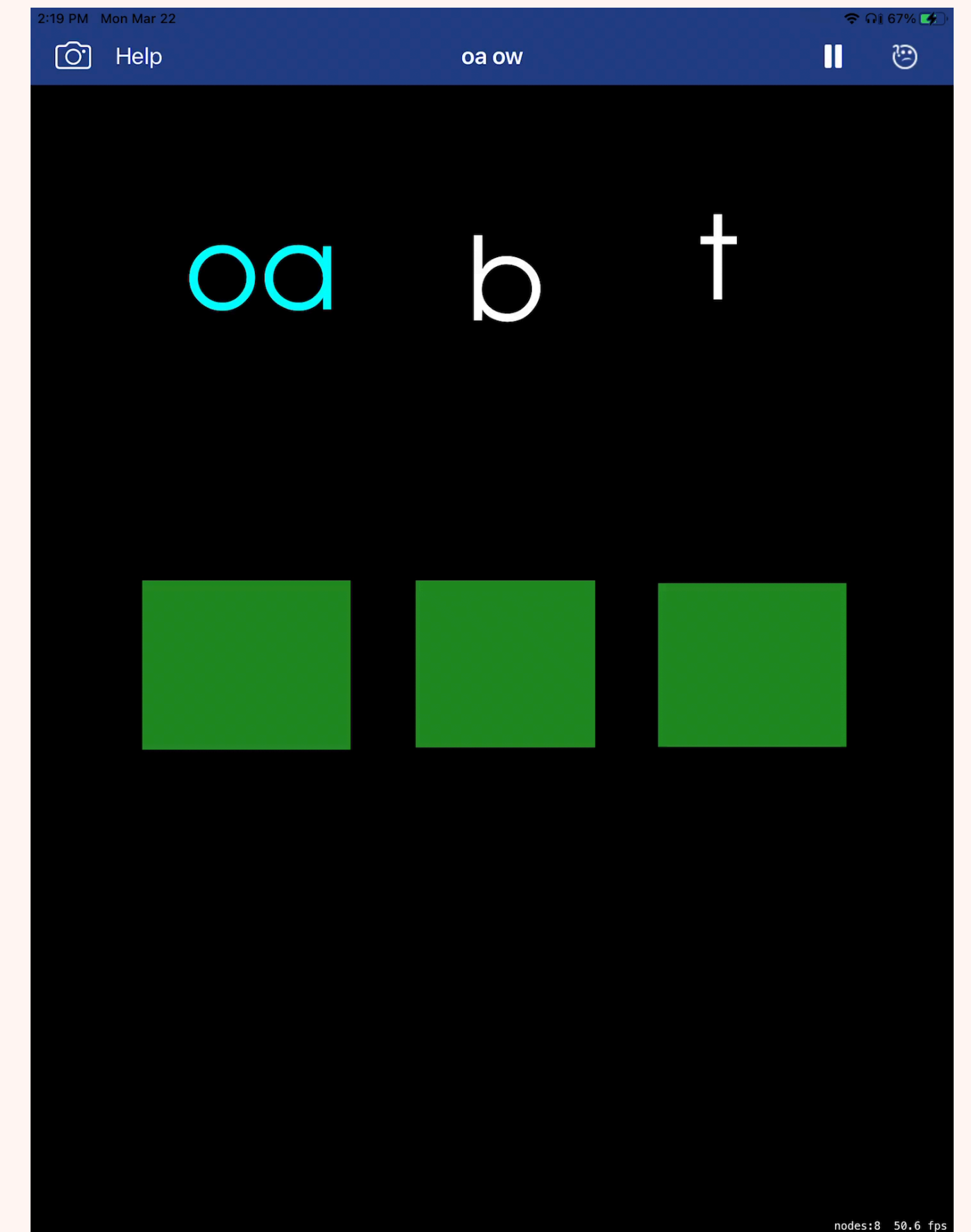
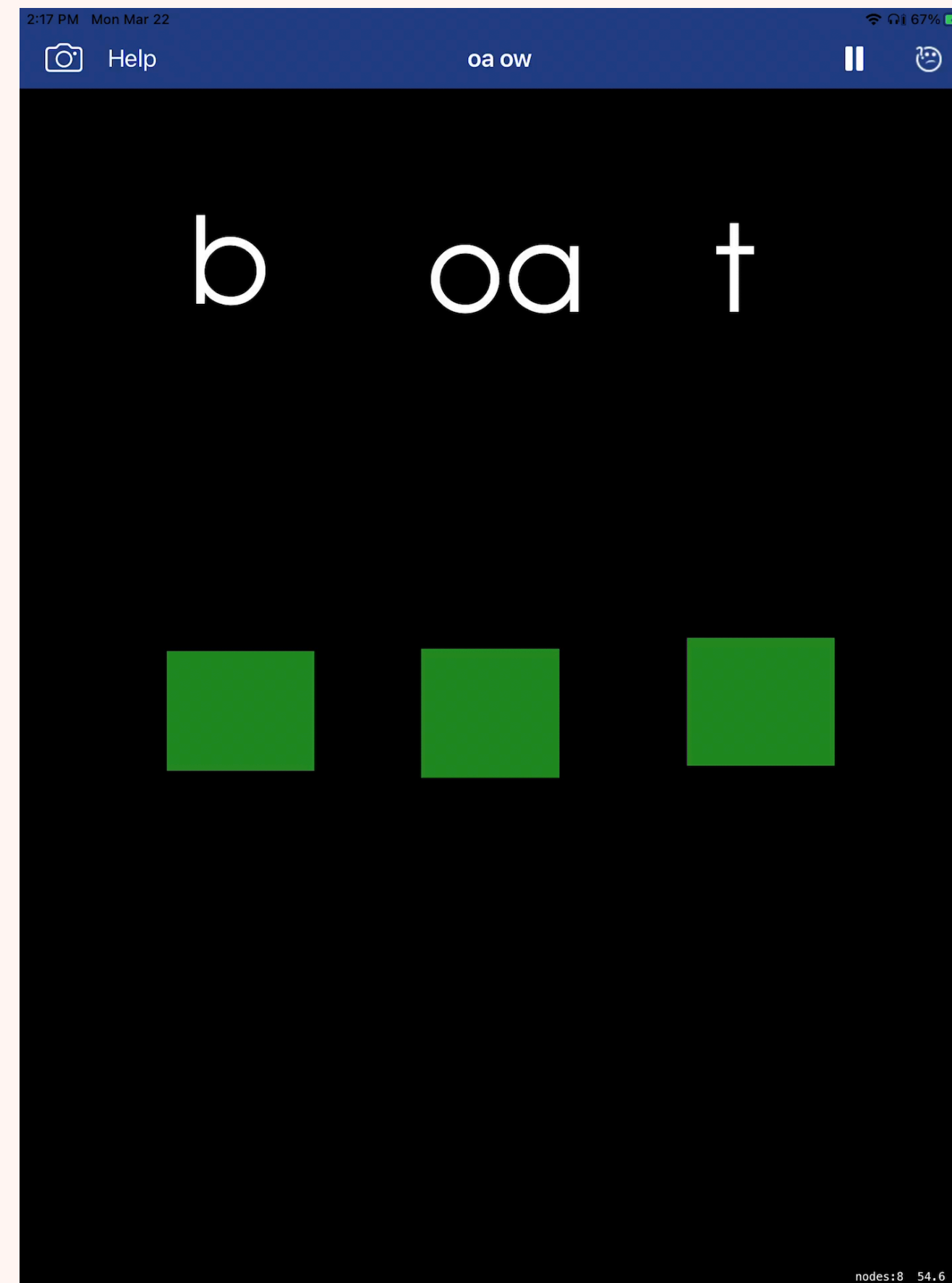
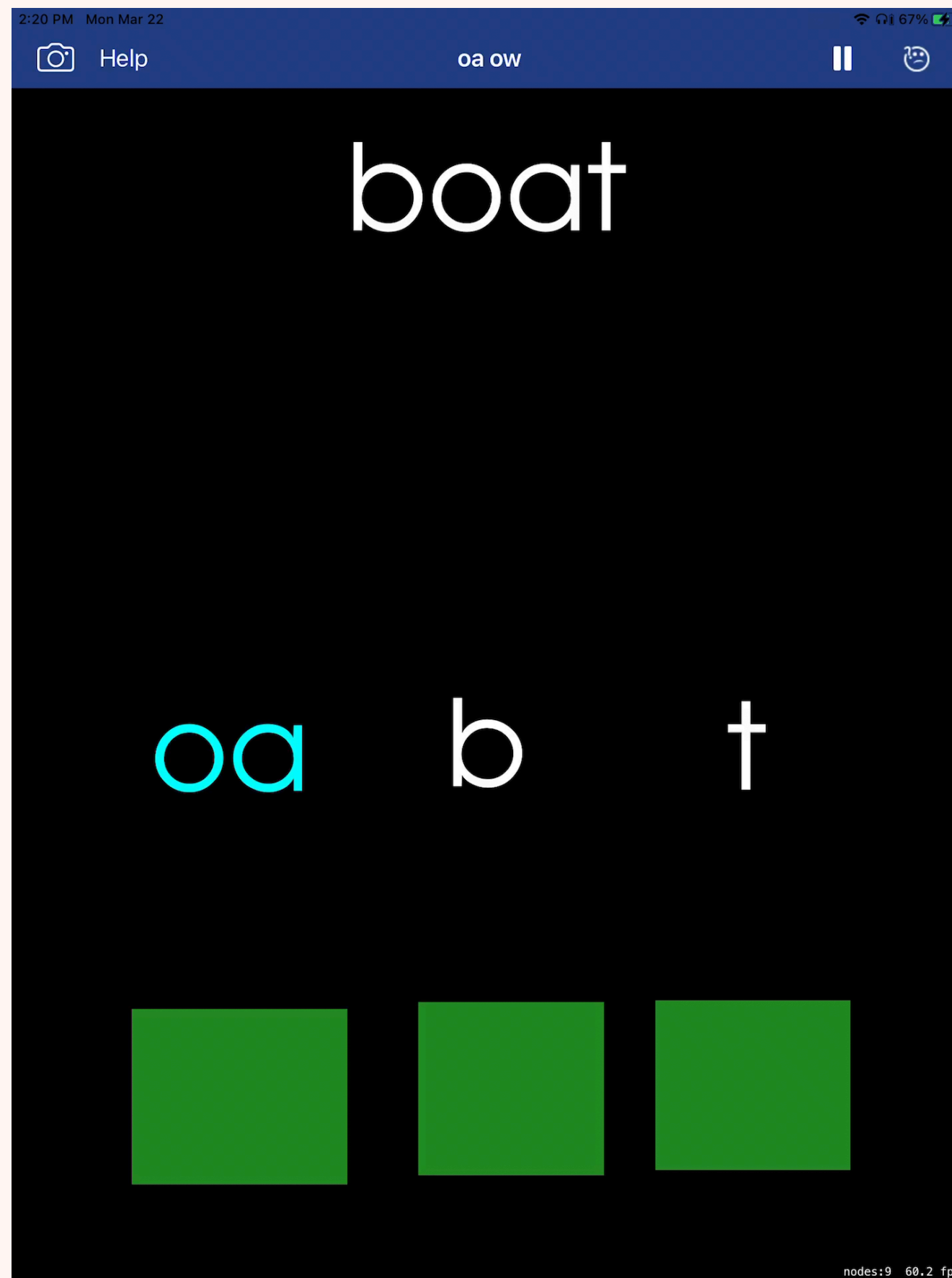
REDUCE COMPLEXITY OF IMAGES

Ensuring Meaningful Access for Students with CVI

- **Search PNG images**
- **remove.bg**
- **Eraser app**

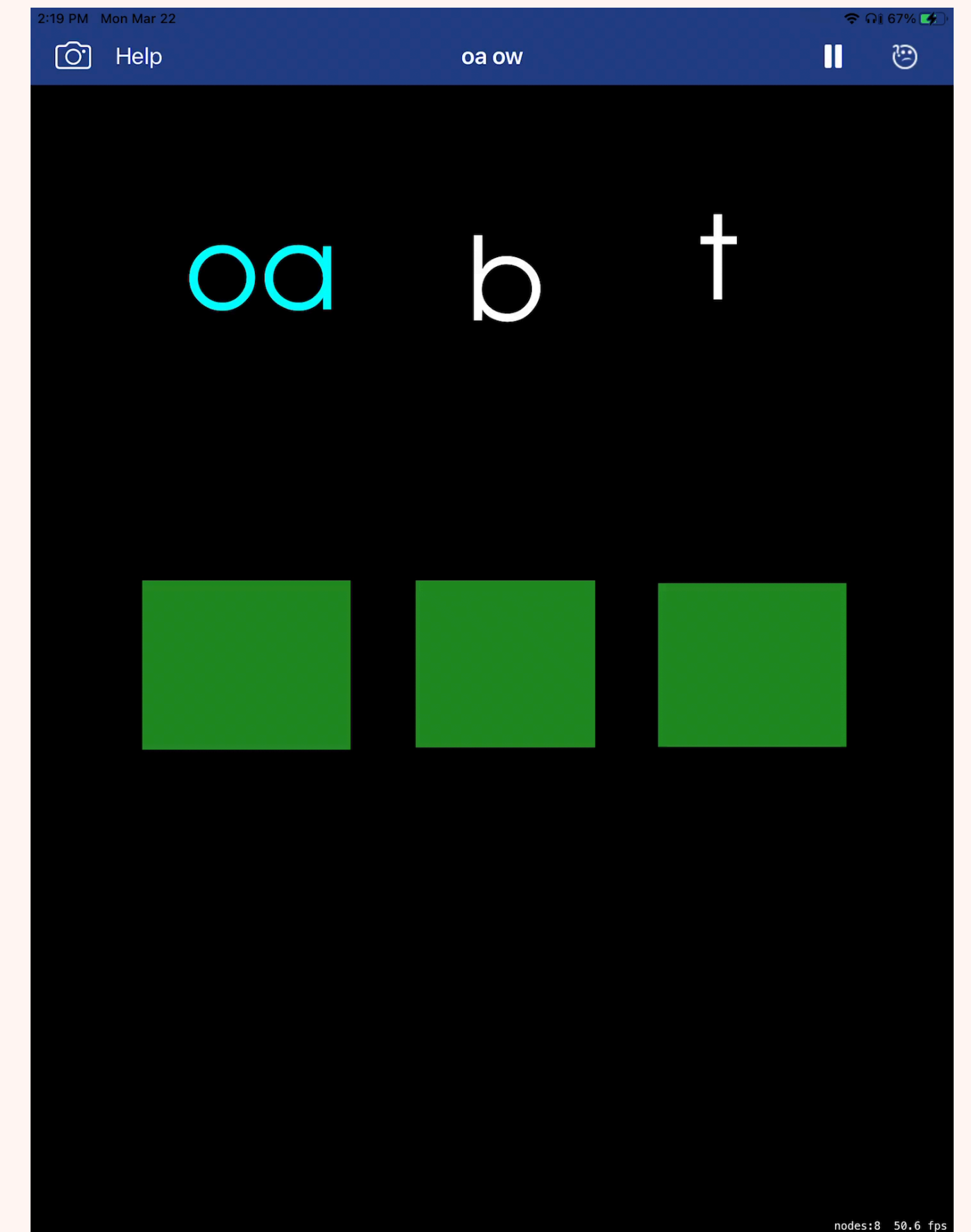
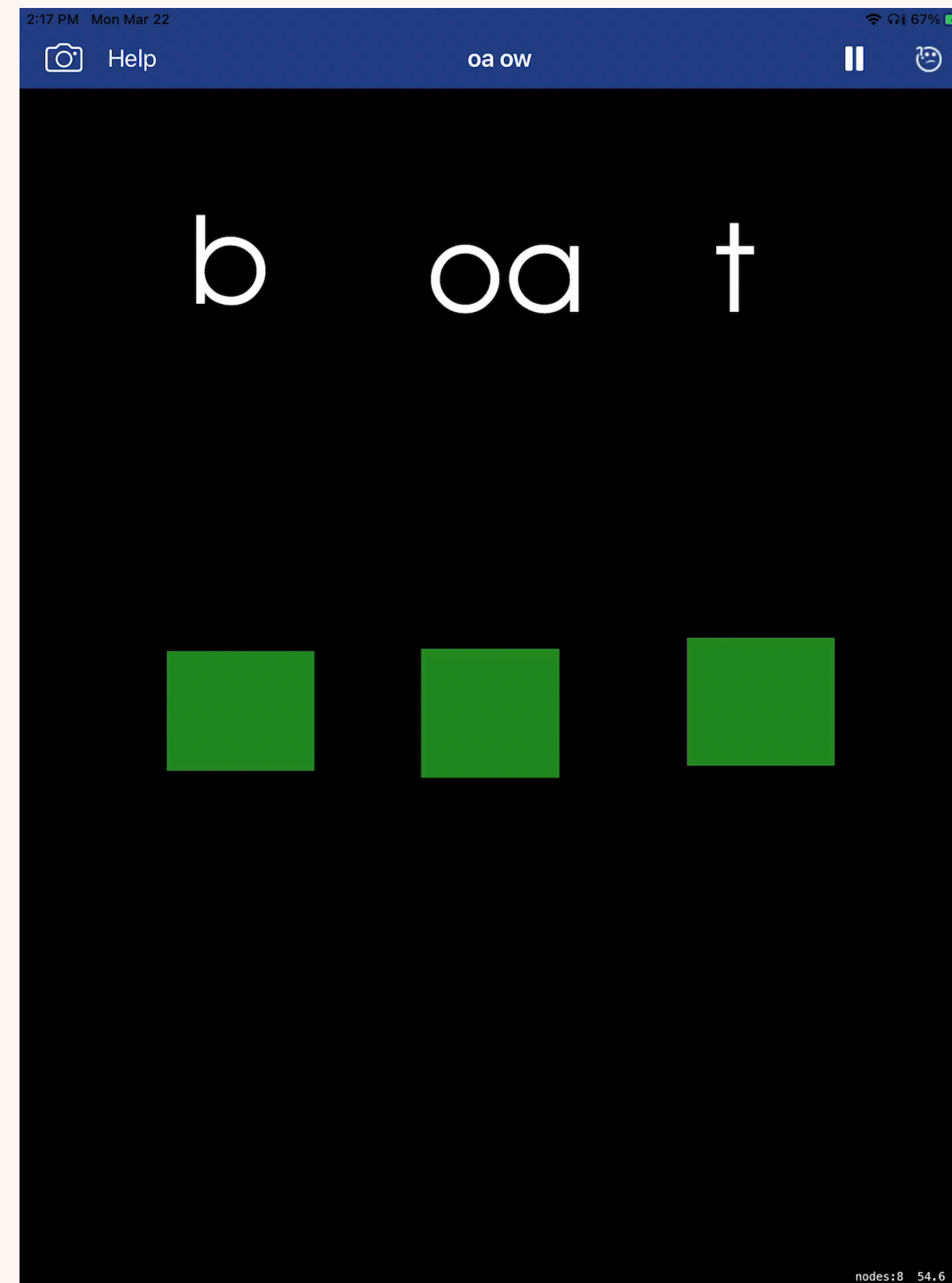
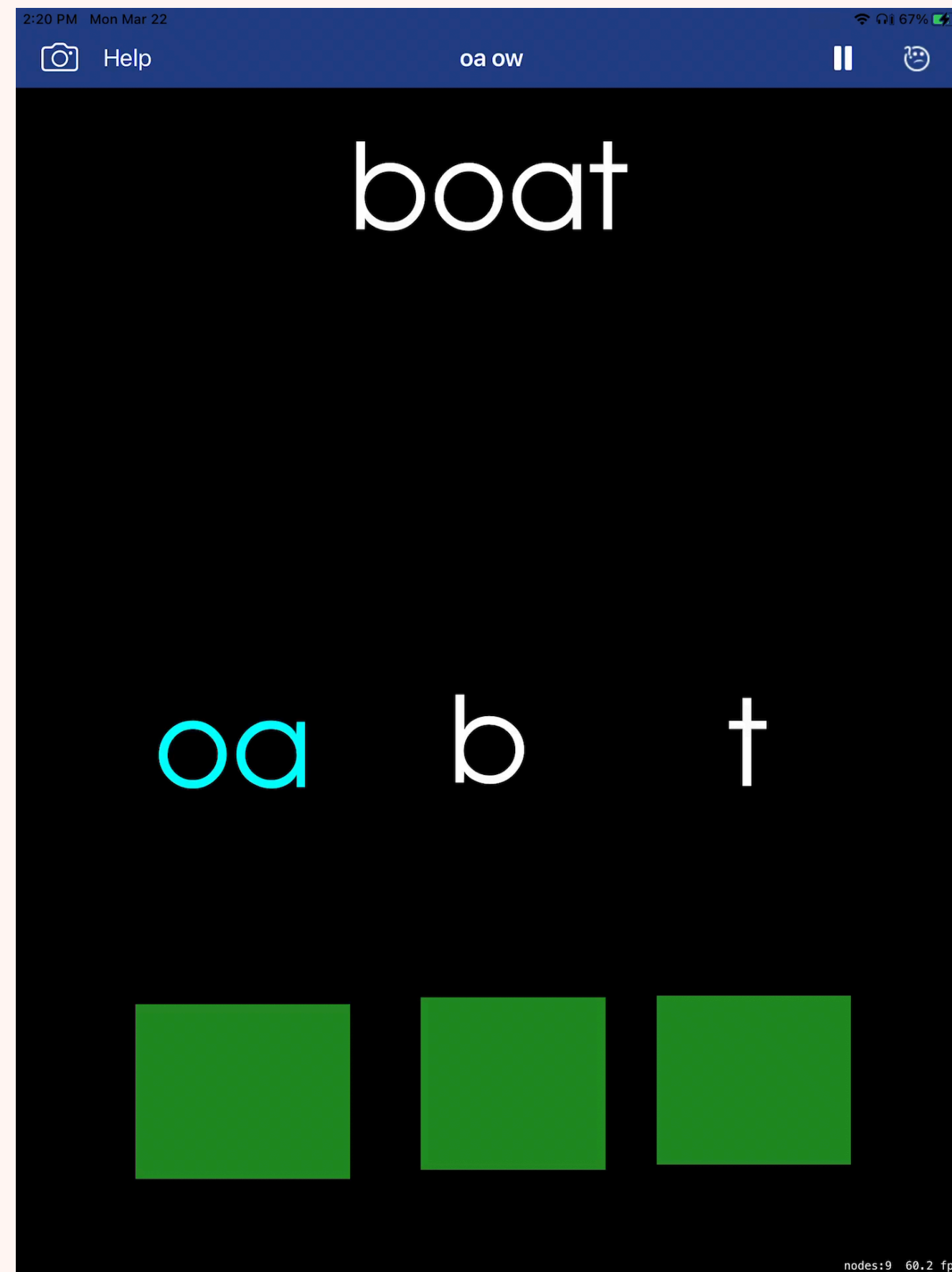
ACTIVITIES

Ensuring Meaningful Access for Students with CVI



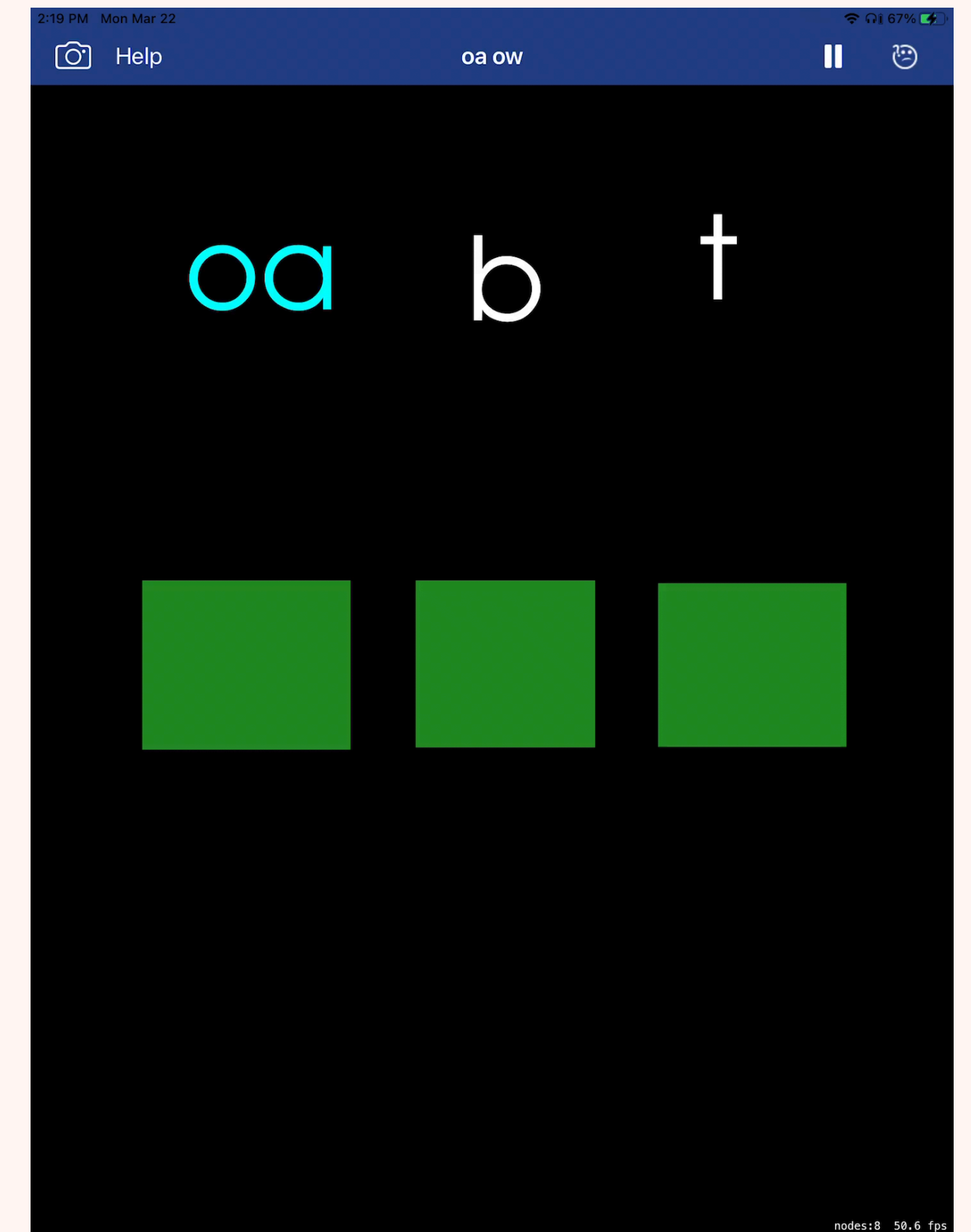
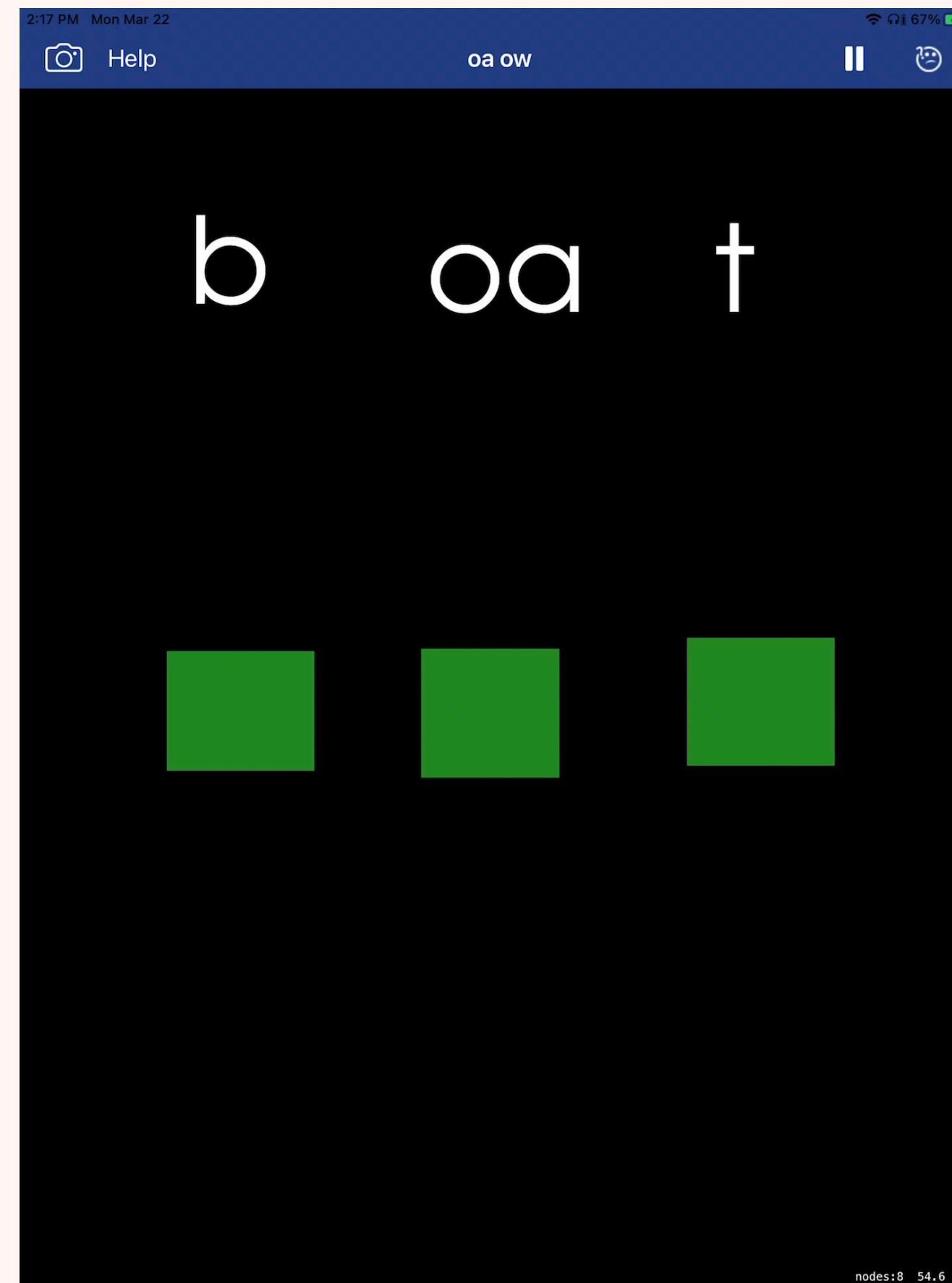
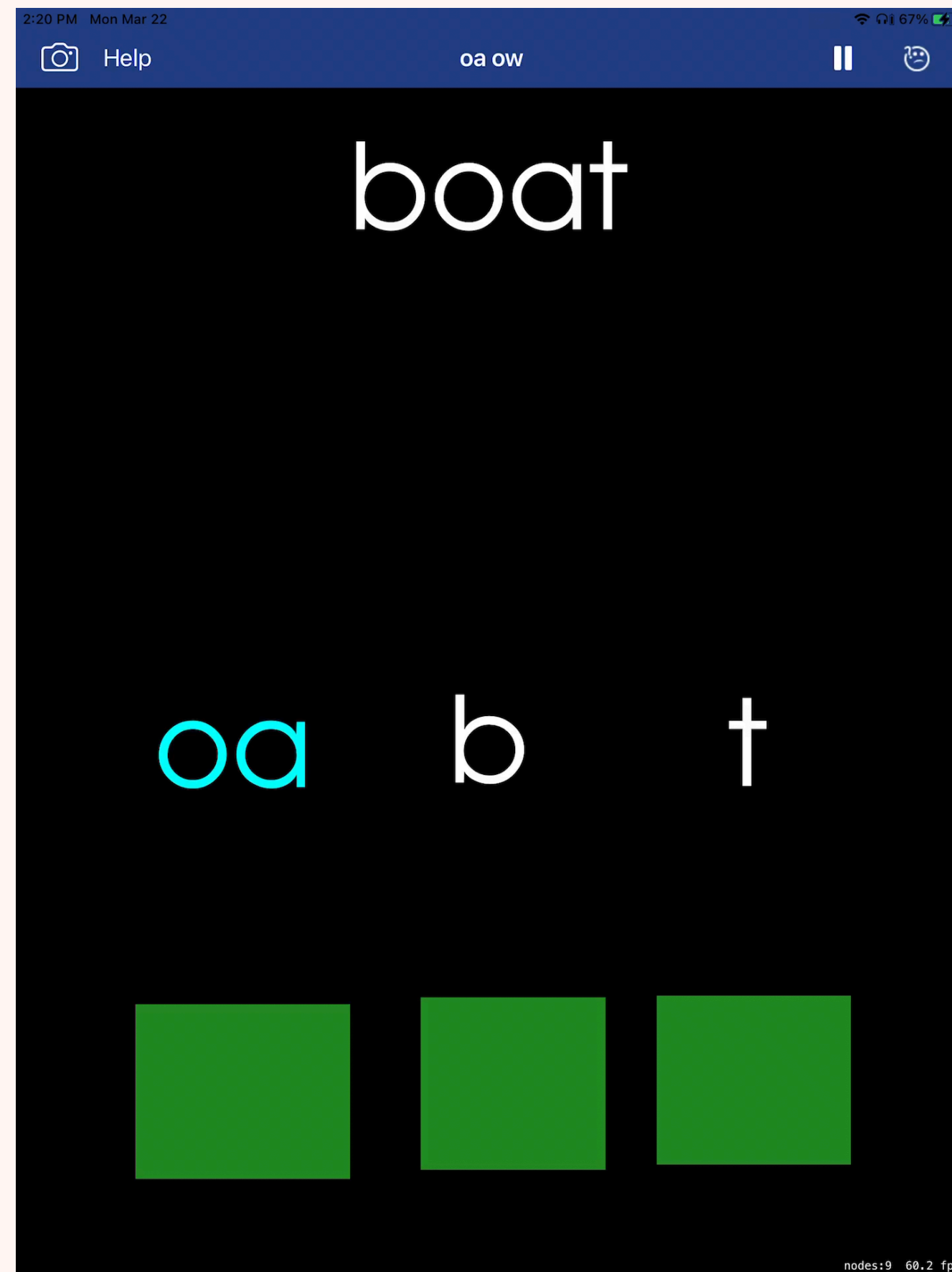
ACTIVITIES

Ensuring Meaningful Access for Students with CVI



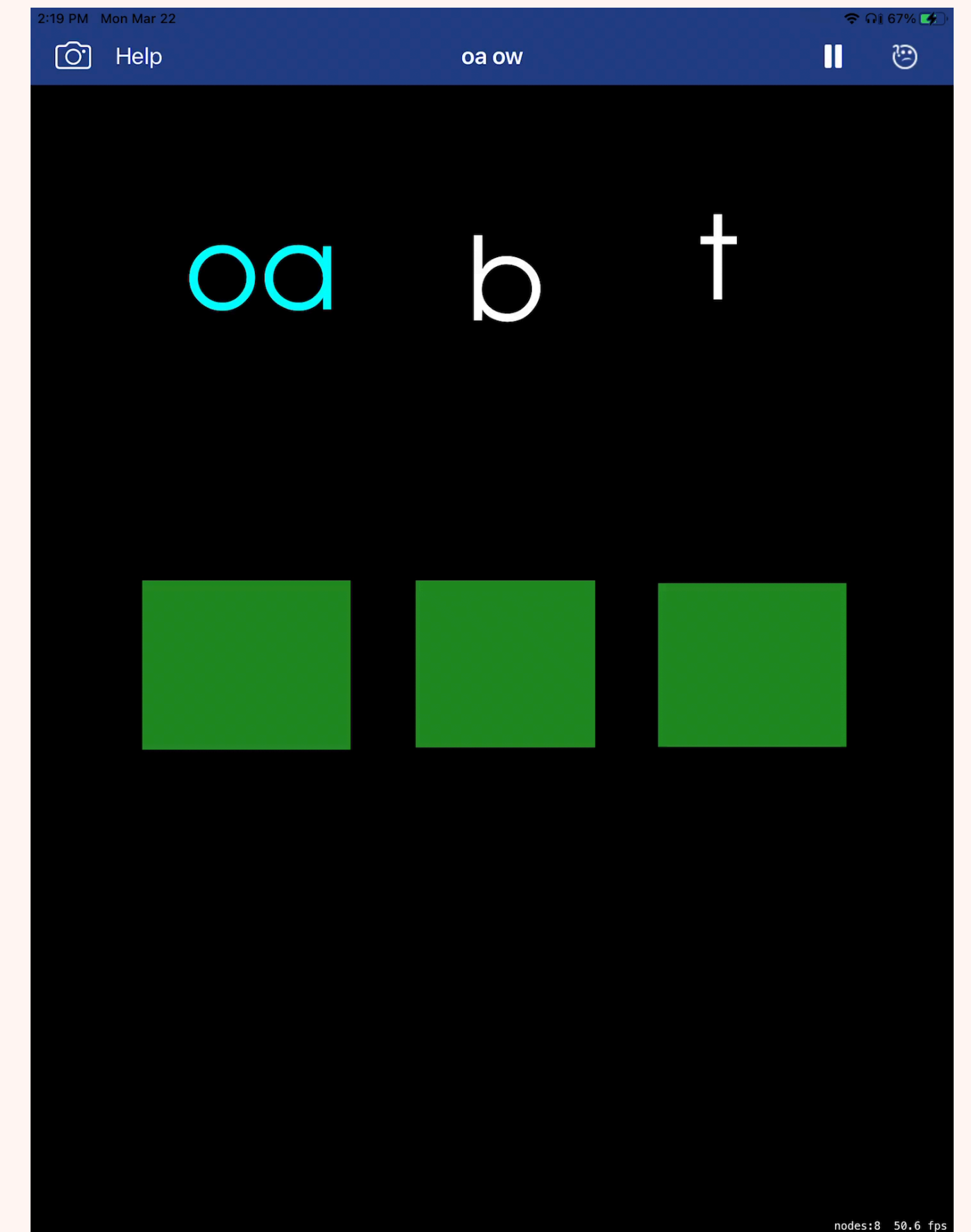
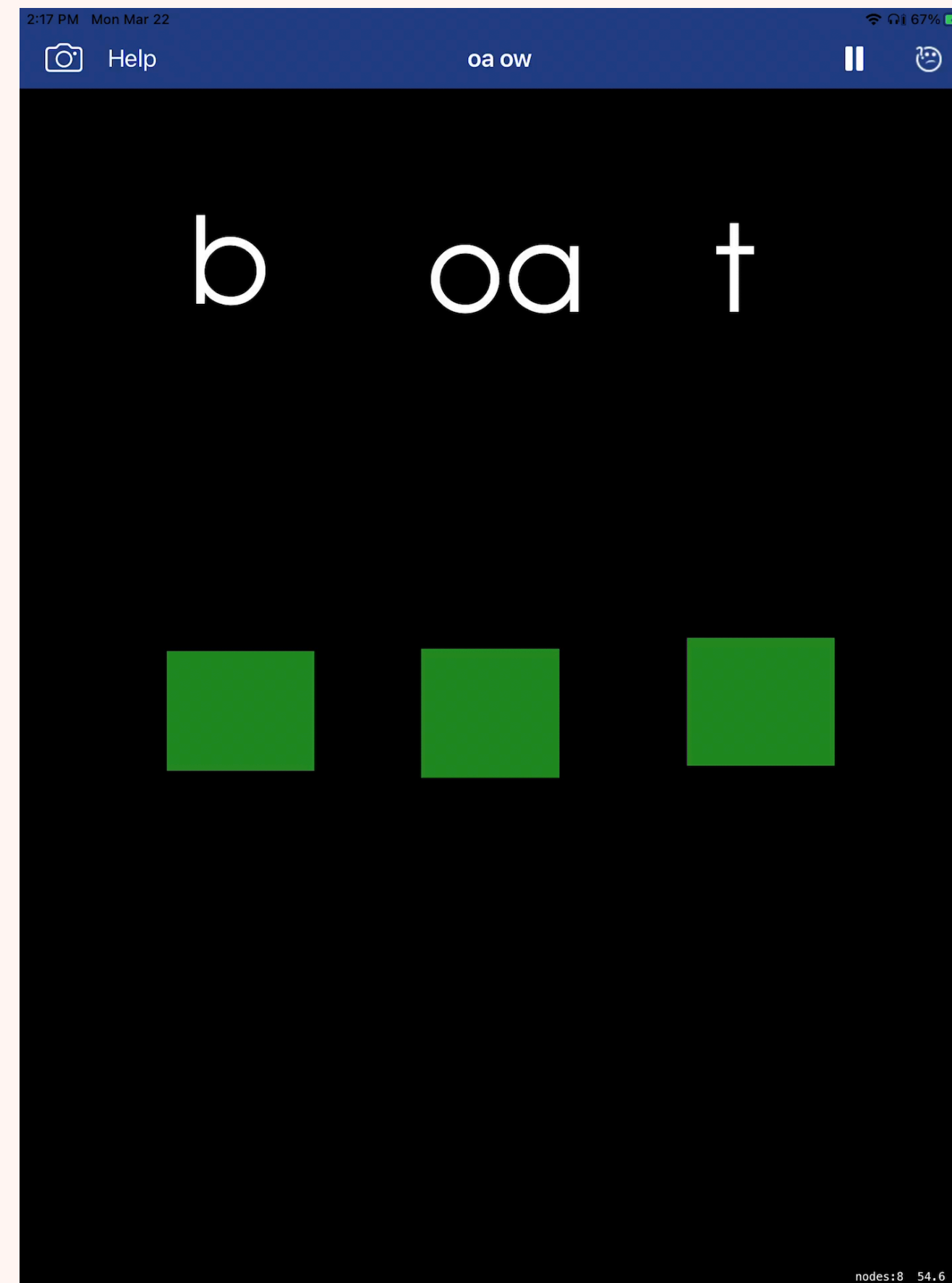
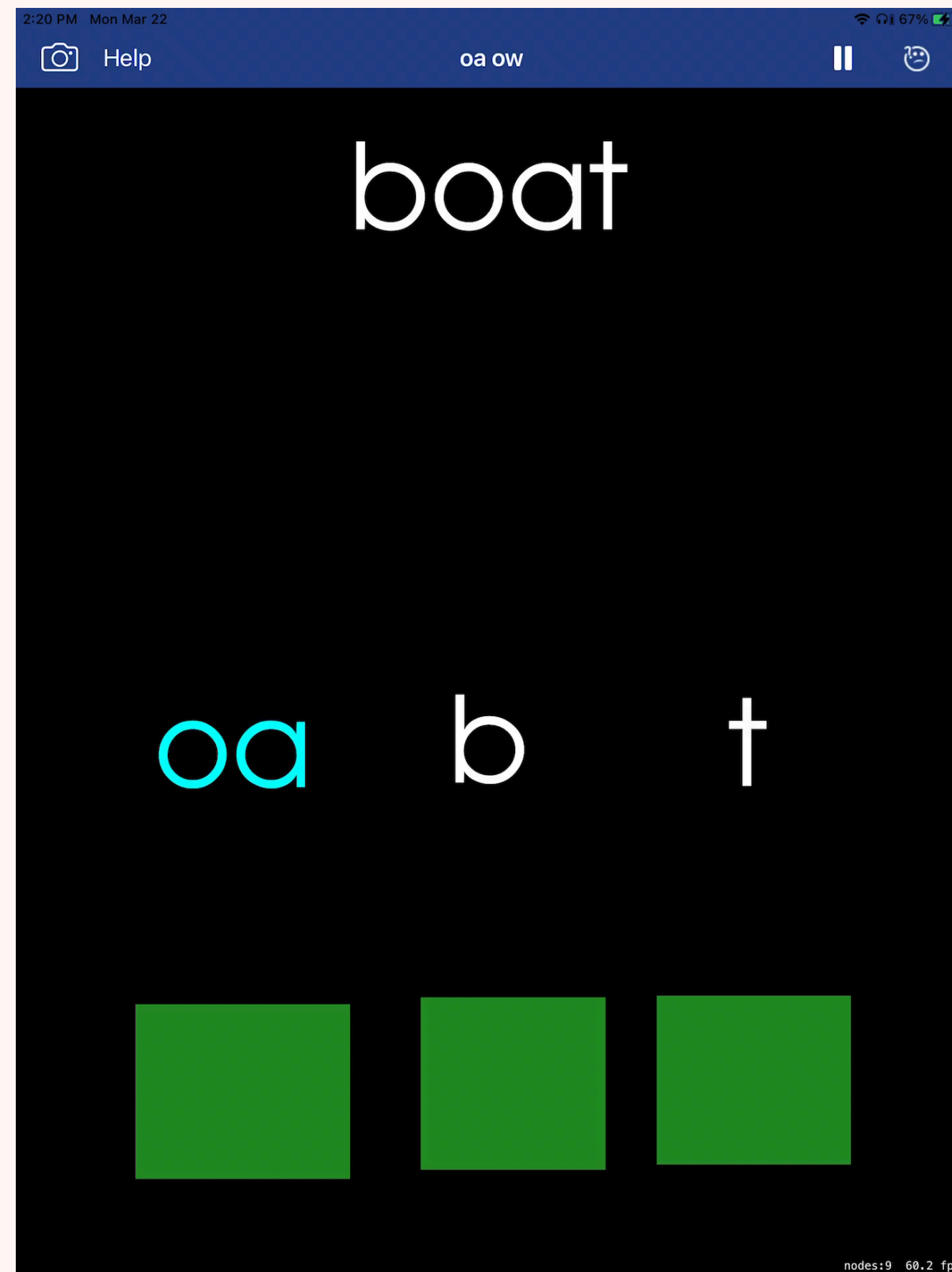
ACTIVITIES

Ensuring Meaningful Access for Students with CVI



ACTIVITIES

Ensuring Meaningful Access for Students with CVI



ACTIVITIES

Ensuring Meaningful Access for Students with CVI



tap
tad

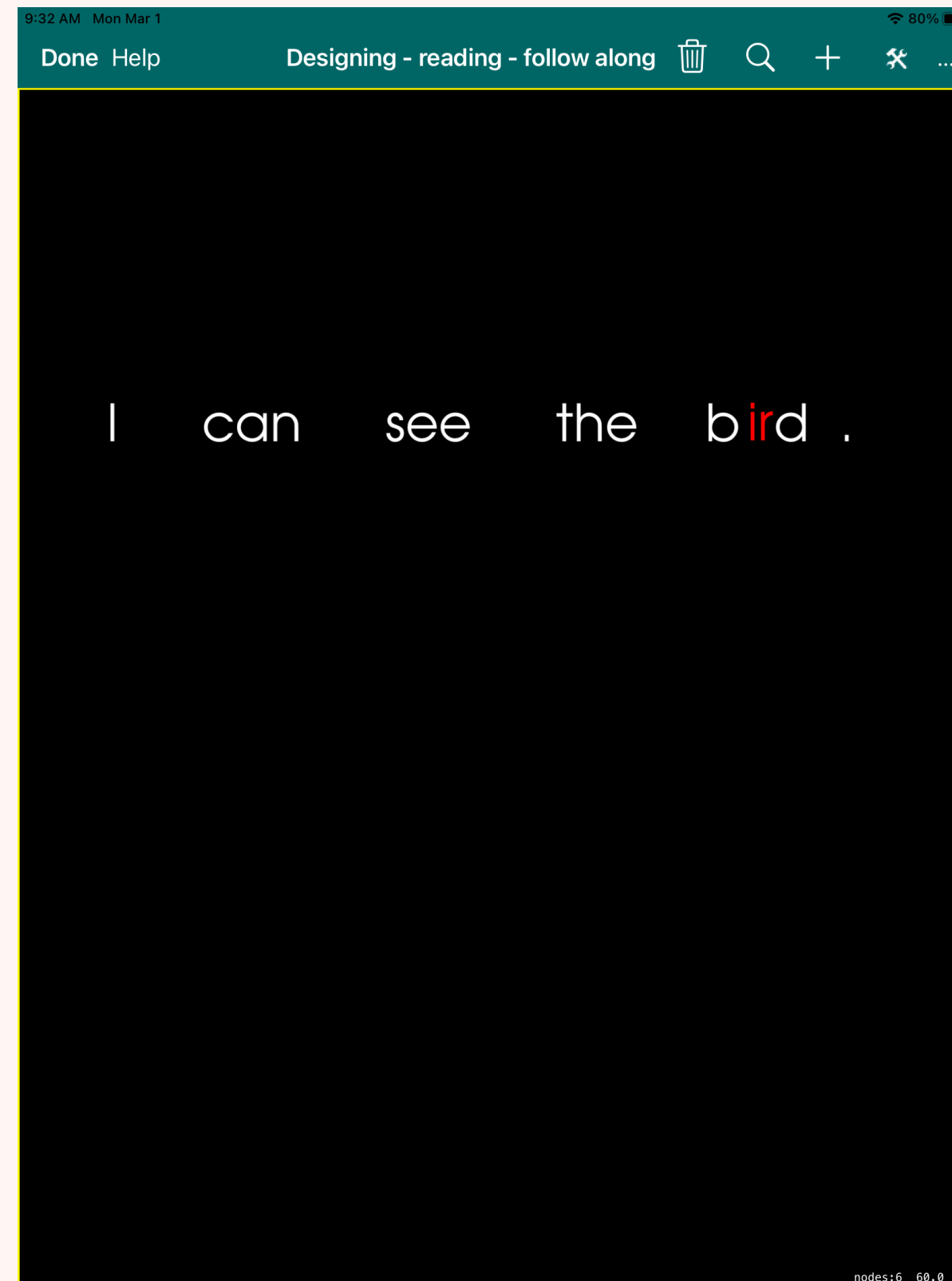
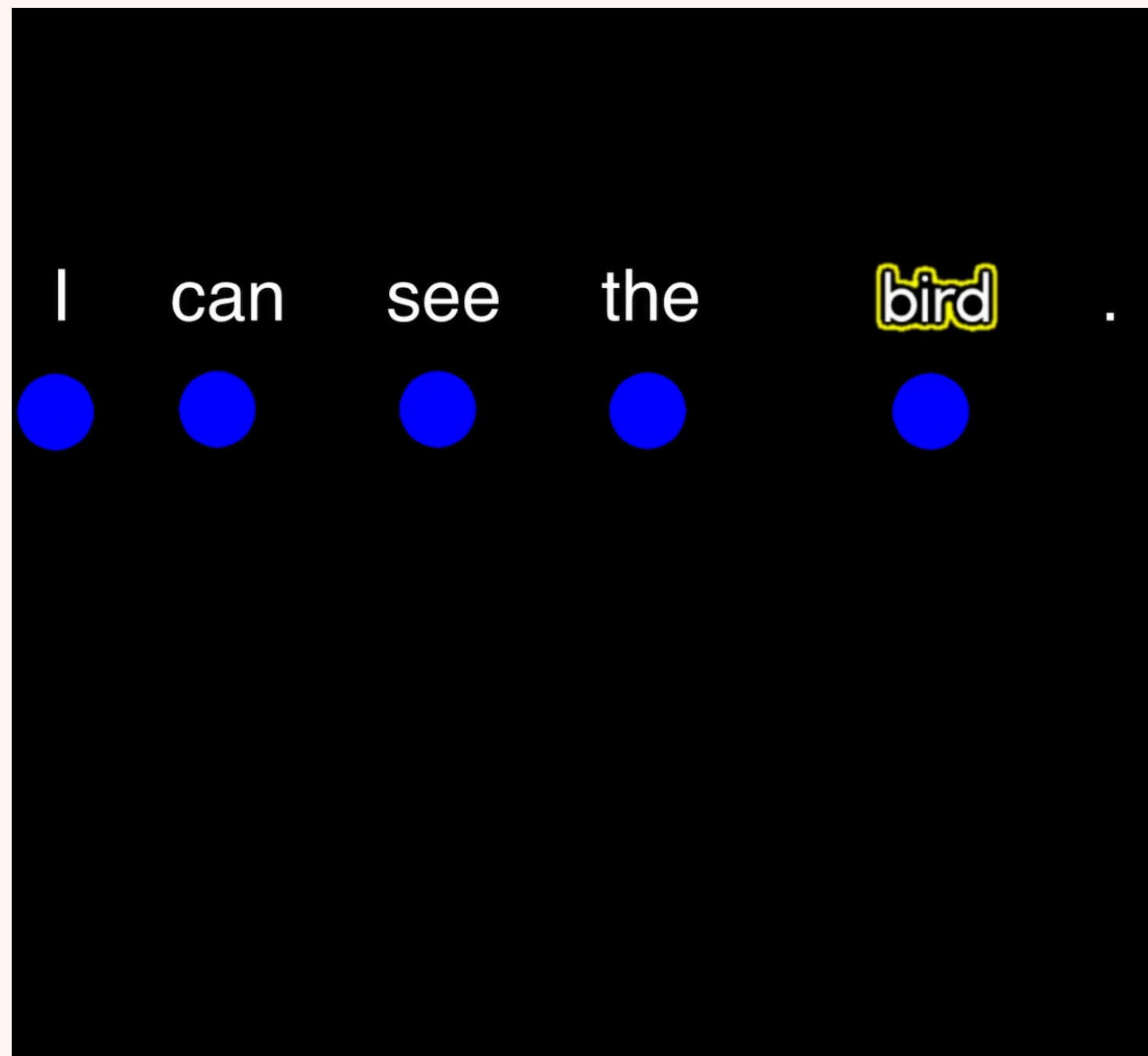
cat
bat
fat



A a
/a/
apple

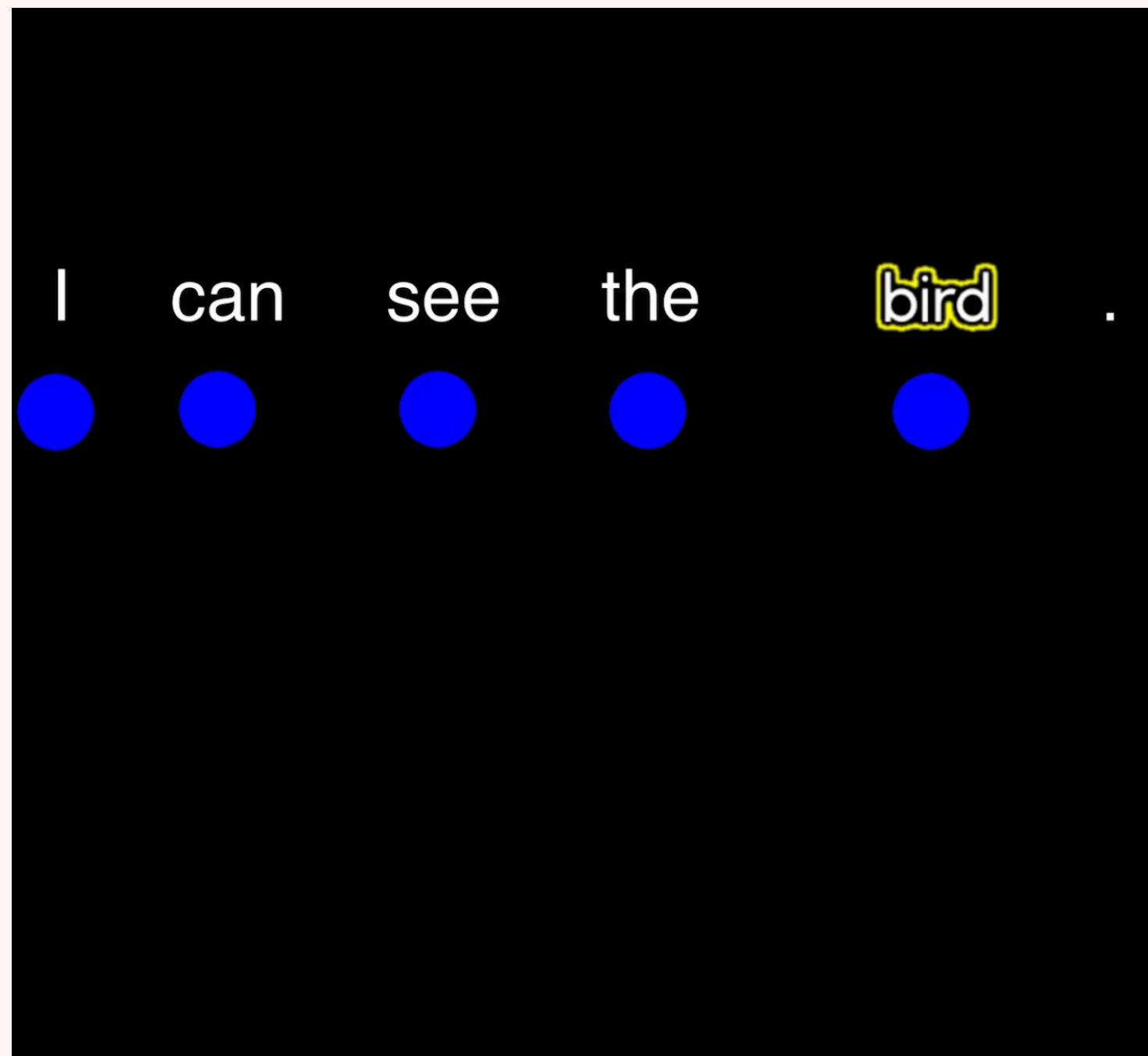
ACTIVITIES

Ensuring Meaningful Access for Students with CVI



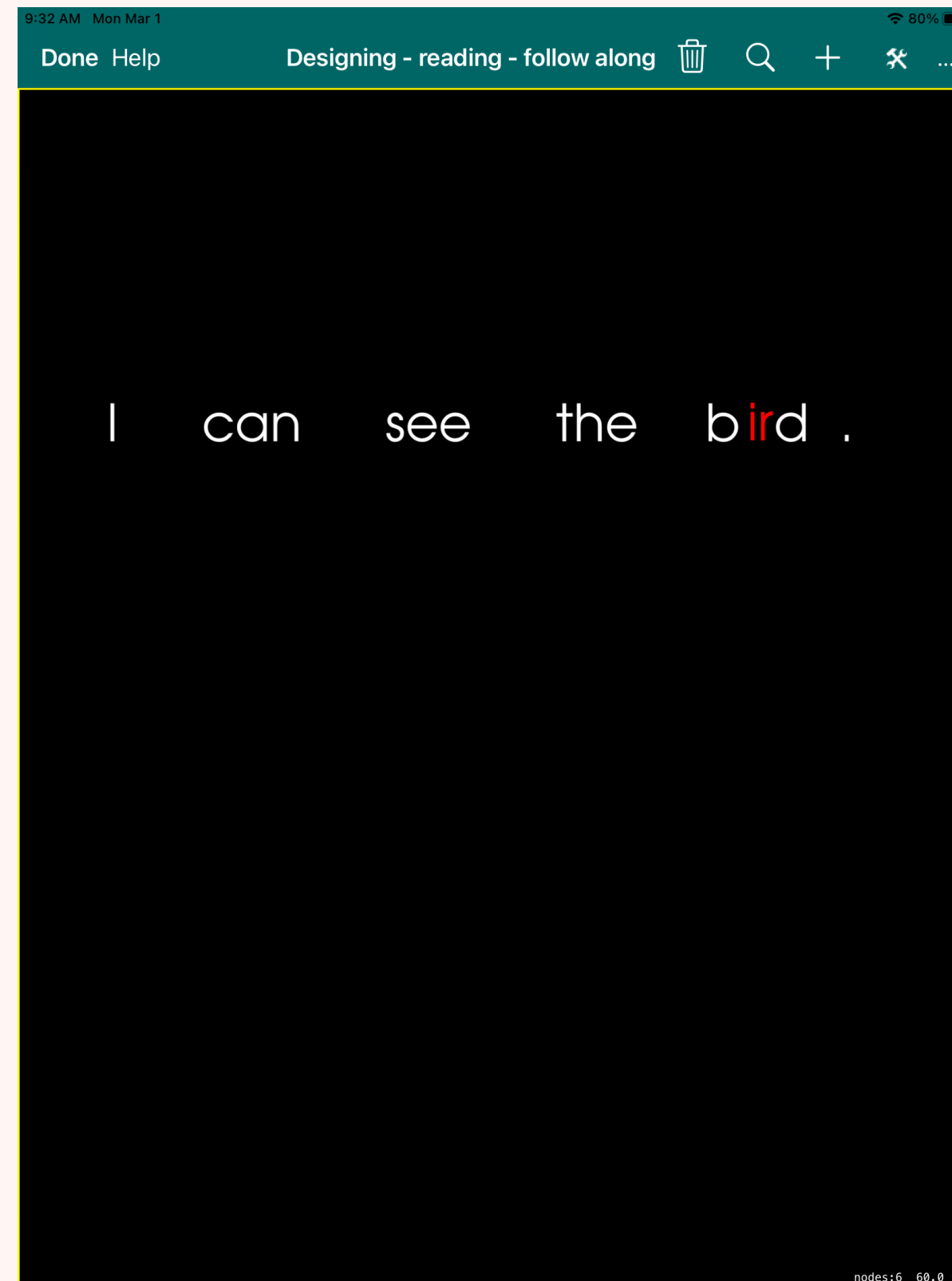
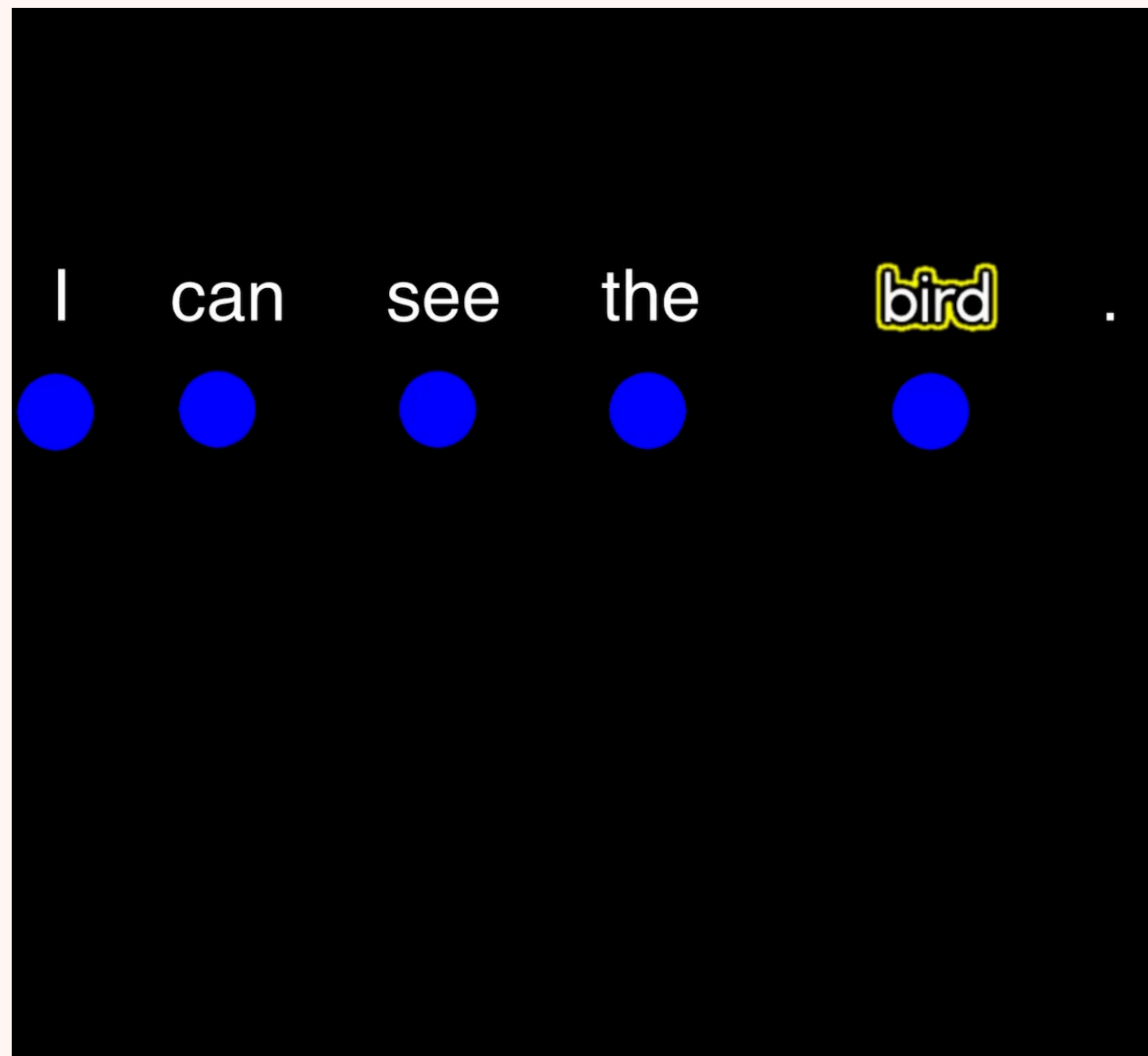
ACTIVITIES

Ensuring Meaningful Access for Students with CVI



ACTIVITIES

Ensuring Meaningful Access for Students with CVI



ACTIVITY DESIGNER

- **Individualize:**
 - **Images**
 - **Videos**
 - **Drawing Board**
 - **Particles**
 - **Labels**
 - **Speech Labels**
- **Interact**
 - **Touching**
 - **Looking**
 - **Speech**
- **Engage**
 - **Movement**
 - **Audio**
 - **Color**
 - **Link to Activities**
 - **Keep Score**

REFERENCES

- Dutton, Gordon, N. "Assessment of Functional Vision: History Taking for Children with CVI". Contained in A. Lueck & G. Dutton: Editors, *Vision and the Brain: Understanding Cerebral Visual Impairment in Children*. 2015, New York, New York: American Foundation for the Blind Press. Chapter 11
- Helping children with cvi. (2020, January 20). Retrieved February 19, 2021, from <https://pcvis.vision/>
- Roman-Lantzy, C. (2018). *Cortical Visual Impairment: An Approach to Assessment and Intervention*. 2nd ed., New York, NY: AFB Press.
- Roman-Lantzy, C. (2019). *Cortical Visual Impairment: An Advanced Principles*, Louisville, KY: APH Press.
- Roman-Lantzy, C. and Tietjen, M. (2020). *Sensory Balance: An Approach to Learning Media Planning for Students with CVI*. Watertown, MA: Perkins School for the Blind.
- Ryder, R. E. (2017, May 22). Eligibility Determinations for Children Suspected of Having a Visual Impairment Including Blindness under the Individuals with Disabilities Education Act. Retrieved from <https://sites.ed.gov/idea/files/letter-on-visual-impairment-5-22-17.pdf>
- Teach CVI (2017). Screening lists for children with suspicion of CVI. Retrieved from: <https://www.teachcvi.net/screening-tools>
- Tietjen, M. (2019). The "What's the Complexity?" Framework. In Roman-Lantzy, Christine. (2019) *Cortical Visual Impairment: Advanced Principles* (pp. 92-150). Louisville, KY: APH Press

RESOURCES

- **Bridge School- CVI:** <https://cvi.bridgeschool.org>
- **CViConnect (website and iPad software)** [CViConnect.co](https://cviconnect.co)
- **CVI Paths to Literacy** <https://www.pathstoliteracy.org/blog/category/cvi>
- **Eraser iPad App**
- **Everyday CVI** <https://everydaycvi.com>
- **Pediatric Cortical Visual Impairment Society** <https://pcvis.vision>
- **Perkins; CVI for the TVI** <https://www.pathstoliteracy.org/resources/cvi-tvi-webinar-series>
- **Remove.bg**
- **Roman Word bubbling** <https://roman-word-bubbling.appspot.com>

CVI ASSESSMENTS

Ensuring Meaningful Access for Students with CVI

Functional Vision Assessments

- **The CVI Range (Dr Roman Lantzy)**

Learning Media Assessments

- **Sensory Balance (Dr Roman-Lantzy and Matt Tietjen)**

Additional Assessments/Inventory tools

- **What's the Complexity? (Matt Tietjen)**
- **2-D Image Assessment (Matt Tietjen)**

THANK YOU!

Stephanie Steffer

stephanies@cviconnect.co

CViConnect.co

[CViConnect YouTube Channel](#)