



# Accessibility in *i-Ready Personalized Instruction*

## Feature Overview: Keyboard Navigation

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# Dedicated to Creating Accessible Experiences

We are dedicated to creating products that are fair and accessible to the widest population of students. As part of this effort, our roadmap includes ongoing improvements to online lesson accessibility.

## How Does Keyboard Navigation in *i-Ready Personalized Instruction* Help Students?

Keyboard navigation is available in all *i-Ready Personalized Instruction* Comprehension lessons for Grades K–8, all Vocabulary lessons for Grades 3–5, Phonics lessons for Grade 3, and most Mathematics lessons for Grades 3–5. Additional coverage in Spanish lessons includes: Grades K–2 Phonics, Grades K and 1 Phonological Awareness, and Grades K–2 Vocabulary lessons. Keyboard navigation is also available in all *i-Ready Pro* lessons for Grades 6–8. For information about coverage exceptions, please see the section [Lessons Currently Not Supported by Keyboard Navigation](#).

Keyboard operability provides students the ability to interact with and complete all lesson activities by using a keyboard. Providing keyboard access in *i-Ready Personalized Instruction* creates a gateway to our content for users who are unable to or have difficulty using a mouse or who do not have access to a mouse. This accessibility feature supports the [Universal Design for Learning Principle II: Design Multiple Means of Action and Expression](#) and gives students another means to engage with and experience *i-Ready* content. This new feature creates a more flexible, inclusive, and accessible way for users to learn within *i-Ready* digital lessons.

## WCAG 2.2 and UDL References

[WCAG 2.2](#)

[UDL Guidelines](#)

## Configuration and Support

### Is there additional/supplemental hardware or other tools necessary to support this feature?

- If using a Mac® operating system, accessibility preferences must be enabled.

#### How to enable keyboard support in the macOS® System Preferences application:

- In System Preferences, select **Keyboard**.
- On the menu, under “**Keyboard Navigation**,” you’ll see the following text: **Use keyboard navigation to move focus between controls**. Press the Tab key to move focus forward and Shift + Tab to move focus backward.
- **Toggle** the Keyboard Navigation button to ON.

## Enabling Tabbed Browsing in Safari®

### Keyboard support in Safari on Mac needs to be enabled via the steps below:

- In Safari, select the **Safari > Preferences or Settings** dropdown menu.
- Select the **Advanced** tab at the top.
- Next to **Accessibility**, check the option **Press Tab to highlight each item on a webpage**.

# Keyboard Features User Guide

Keyboard Interaction	Keystrokes	Notes
<b>Navigate to Interactive Elements on Screen</b> (in Natural Reading Order: Top/Bottom/Left/Right)	<b>Tab</b> <b>Shift + Tab:</b> Navigate backward.	Keyboard focus is shown visually on screen by a focus indicator.
<b>Button Selection</b>	<b>Enter</b> or <b>Space Bar</b>	Selection of a focused interactive item will trigger system behavior equivalent to a touch-UI tap or click.  If the button is a <b>Done</b> button, keyboard selection shall immediately submit the currently selected answer for evaluation/feedback.
<b>Radio Button Selection</b>	<b>↑/↓</b> or <b>←/→</b> : Select an option. <b>Tab</b> : Move to the next element.	
<b>Slider Widget</b>	<b>↑/↓</b> or <b>←/→</b> : Increase or decrease slider value. <b>Home/End</b> : Move to beginning or end of slider.	
<b>Dropdown Menu</b>	<b>↑/↓</b> or <b>←/→</b> : Previous/next menu option <b>Enter</b> : Select an option.	

## Lessons Currently Not Supported by Keyboard Navigation

Curriculum Associates is driven to provide accessible instructional content, and we plan to expand our coverage of lessons with keyboard navigation support to additional grades and domains. Current exceptions include:

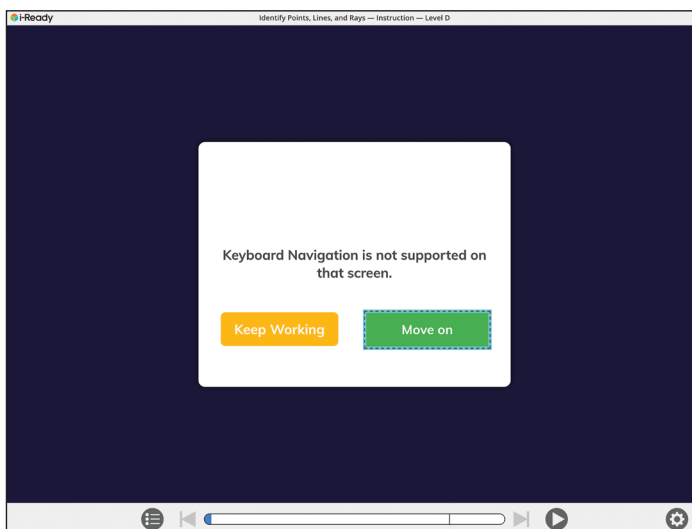
- **Mathematics lessons for Grades K–2**
- **Word problems and some fractions screens for Grades 3–5**
- **Phonics, Phonological Awareness, and High-Frequency Words lessons in English for Grades K–2**
- **Close Reading lessons**
- **A small percentage of extra lessons (i.e., lessons that can be previewed and assigned by teachers but never show in the automated My Path queues)**

# Exceptions with Built-In Workarounds

Keyboard access is not fully supported in the following Mathematics lessons. However, each lesson has a built-in workaround for users to bypass the unsupported screen (see modal screenshot/additional context below).

## Grade 4 Lessons

- Identify Points, Lines, and Rays
- Identify Angles
- Line Symmetry
- Measure Angles



**Note:** In the Mathematics lessons listed above, keyboard access could not be implemented on certain screens due to technical constraints. For those screens, when a user attempts to tab, they will be brought to a keyboard-accessible modal (pictured above). Upon loading of the modal, students will hear audio that directs them to either tab to the Keep Working button and hit Enter to complete the screen using a mouse or to tab to the Move On button and hit Enter to bypass the screen that does not support keyboard access. None of these non-keyboard-accessible screens are scored, and while it is ideal for a student to complete them, they are not required for the completion of the lesson.