

# i-Ready Standards Mastery Universal Accessibility Features and Accommodations

Curriculum Associates Guidance Brief | October 2023

### i-Ready Standards Mastery Universal Accessibility Features and Accommodations Guidance

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## Section 1: Overview

*i-Ready Standards Mastery* includes many universal accessibility features and supports for numerous accommodations. This document provides detailed descriptions of these features and supports and guidance for educators on effective implementation with students.

#### 1.1: The Curriculum Associates Commitment

At Curriculum Associates, we believe every student has the potential for educational excellence. That's why we're dedicated to creating accessible materials that maximize usability for students with disabilities. We strive to ensure that accessibility and accommodation support considerations are incorporated into our product development process from the very beginning, and we've developed a continual improvement approach to accessibility that ensures we're always improving and learning.

#### 1.2: Accessibility Supports and Accommodations

In *i-Ready Standards Mastery*, universal accessibility features are available to all students and do not require an educator to enable these features.

Conversely, there are processes and tools in *i-Ready Standards Mastery* that are only used to support students who require accommodations. Accommodations are usually mandated supports provided as a part of a student's individualized education plan (IEP) or 504 plan. IEP teams and other educators within the school determine which accommodations a student receives. Although Curriculum Associates provides guidance on how to implement various accommodations, it is up to educators who work with individual students to determine which accommodations are needed and how to correctly implement them.

The following table and footnotes provide an overview of *i-Ready's* current accessibility supports and accommodations. The footnotes contain details about coverage in *i-Ready Standards Mastery*. Other *i-Ready accessibility resources are* available on *i-Ready Central*.



## i-Ready's Accessibility Supports and Accommodations

Universal Supports	Designated Supports	Accommodations
Available to all students, regardless of their disability status or any other type of documented need	Available for use by any student as determined by an educator familiar with the student's characteristics and needs	Available to students in accordance with their IEPs/504 plans
Embedded universal supports available within the <i>i-Ready</i> interface that require no additional configuration:  • Audio support¹  • Audio description tracks²  • Keyboard access³  • Calculator*  • Color contrast⁴  • Closed captioning⁵  • Digital Math Tools6  • Glossary definitions and Spanish translations for academic vocabulary and key terms**  • Presentation of material for ageappropriate pedagogy and legibility7  • Scaffolded support (lesson-specific, interactive elements)**	Audio support for Diagnostic items for Mathematics for Grades 6+ are available as a designated support as of September 2021. Educators need to enable this feature. To learn more about designated audio support in our Diagnostic, please refer to the Feature Overview: Audio Support. All other traditionally embedded designated supports are available universally to students in <i>i-Ready</i> , requiring no further configuration by educators.	Embedded At this time, traditionally embedded accommodations are handled through universal and designated supports or through non-embedded accommodations.
Non-embedded  Non-embedded universal supports outside of the <i>i-Ready</i> interface include:  • Audio amplification  • English dictionary (when appropriate)  • Noise buffer (e.g., earmuffs, audio aids)  • Scratch paper (i.e., blank paper)  • Thesaurus (when appropriate)	Ron-embedded  Educators can make the following non-embedded designated supports available to students outside of the <i>i-Ready</i> interface:  Bilingual dictionary  Magnification device <sup>8</sup> Native language translation of directions  Student reads test aloud.	Non-embedded  Non-embedded accommodations are available to students outside the <i>i-Ready</i> interface:  Abacus  Alternate response options  Calculator  Extended time breaks and flexible scheduling  Graphic organizer/reference sheet/checklist  Human reader  Human signer  Multiplication table  Scribe  Screen readers9  Tactile graphics10

- <sup>1</sup> **Universal audio support** (i.e., pre-recorded human-voiced audio of text) is currently available in *i-Ready Personalized Instruction* either automatically or on demand by pressing audio buttons to support most of the text on screen across lessons. The Assessment of Spanish Reading includes universal audio support in Phonics items for Grades K–3, Vocabulary items for Grades K–1, Phonological Awareness items for Grades K–1, and Comprehension items for Grade K. In the other *i-Ready* assessments (not including Standards Mastery), audio support is provided for Grades K–5 Mathematics items, Grades K–3 English Language Arts and Vocabulary items, and Grade K Comprehension items.
- <sup>2</sup> **Audio description tracks:** Students can enable audio description of what is happening visually in the Diagnostic Introductory Videos for Grades 3–5 by selecting the AD button. This is the first in a series of ongoing releases to add audio descriptions to Diagnostic videos.
- <sup>3</sup> **Keyboard access** is currently available with documented exceptions in *i-Ready* assessments. In *i-Ready Personalized Instruction*, it is available in all Grades K–8 Comprehension lessons, in most Grades 3–5 Phonics and Vocabulary lessons, and in most Grades 3–5 Mathematics lessons. Additional domains and grades will be added on an ongoing basis. Please refer to the <u>Feature Overview</u>: <u>Keyboard Access</u> to learn about relevant exceptions.
- <sup>4</sup> **Contrast requirements:** In *i-Ready Assessment*, we are compliant with Web Content Accessibility Guidelines (WCAG) 2.0 AA requirements with documented exceptions. All *i-Ready Personalized Instruction* lessons created after July 2019 adhere to WCAG 2.0 AA requirements for contrast. For lessons created before July 2019, we are compliant with WCAG 2.0 AA contrast in many places, but the exceptions have not been extensively documented. For the majority of lessons, global lesson navigation controls (i.e., buttons for backward/forward, pause, settings, and the progress bar) now adhere to WCAG 2.1 AA requirements for contrast.
- <sup>5</sup> **Closed captioning** is available on most Diagnostic Interactive Tutorials for Grades K–2, the Diagnostic Introductory Videos for Grades 3+, and in all Diagnostic and Growth Monitoring videos embedded in passages. In *i-Ready Personalized Instruction*, closed captioning is available in English for English lessons and in Spanish for Spanish lessons. 100 percent of My Path lessons for Grades K–8 have closed captioning and/or text on screen. A small percentage of extra lessons (i.e., lessons that can be assigned by teachers but never show in the automated My Path queues) will still have closed-captioning exceptions. To learn more, please refer to the <u>Feature Overview: Closed Captioning</u>.
- <sup>6</sup> **Digital Math Tools** are available on specific items or lessons.
- <sup>7</sup> Presentation of material for age-appropriate pedagogy and legibility includes the use of clear, concise, chronological directions, student-friendly fonts, easily legible formatting, graphic organizers, and pacing/engagement controls such as chunking of texts and "slow down" timers.
- <sup>8</sup> We have not tested the use of third-party built-in operating system magnification software extensively for compatibility across browser platform combinations. Educators may find the following documents helpful: <u>For PCs</u> | <u>For Macs</u> | <u>For iPads</u> | <u>For Chromebooks</u>™
- <sup>9</sup> Screen-reader support is available for all Grades 3–8 Comprehension lessons in English. Please reference additional information about *i-Ready Personalized Instruction* screen-reader support and refreshable braille displays. In most *i-Ready* assessments, screen readers can be used to respond to most items with documented exceptions. In the *i-Ready Diagnostic*, *i-Ready Standards Mastery*, and *i-Ready Growth Monitoring*, exceptions include some techenhanced item types, and students may require additional assistance when they encounter items with complicated visual stimuli such as graphs and figures. When taking these assessments in Spanish, screen-reader users will encounter some screen-reader labels and announcements in English. In *i-Ready Standards Mastery*, alternative (i.e., alt) text is now available in the majority of items with images or graphics. In the *i-Ready Assessment of Spanish Reading*, alt text is available where needed.
- <sup>10</sup> There are some instances when a student may request or require a tactile graphic to access a test item enhanced by alt text. Because the *i-Ready Diagnostic* is a computer-adaptive assessment, notification about the need for a tactile graphic cannot be provided to teachers before the assessment is administered. This <u>guidance brief</u> offers information about how to create tactile graphics on demand.



#### 1.3: Presentation of Material

As indicated above, *i-Ready Standards Mastery* has many universal accessibility features built into the program to help address the needs of students with specific accommodations stipulated in their IEPs or 504 plans. These features include:

- A large, easily legible format for all items and passages
- · Large, student-friendly fonts
- · Clear and concise directions
- Universal keyboard navigation (with documented exceptions—see details in <u>Appendix 1</u>)

The documents *i-Ready* Accessibility and Accommodations Update and the FAQ: What accessibility features are available in *i-Ready Assessment* and how can they be enabled? include additional information. These and other *i-Ready* accessibility resources are available on *i-Ready Central*.

#### 1.4: Universal Audio Support

*i-Ready Standards Mastery* for Mathematics and Reading does not include universal audio support. *i-Ready Standards Mastery* for Reading contains some audio and video pieces, such as the reading of a poem or a video of a speech. These multimedia elements are included as dramatic presentations and they are generally included because of the standard being assessed.

For more information on text-to-speech and/or test-read/read-aloud accommodations, see Section 5.

## 1.5: *i-Ready Standards Mastery* and Web Content Accessibility Guidelines (WCAG)

As of April 2023, *i-Ready Standards Mastery* meets WCAG 2.0 Level AA criteria with limited documented exceptions and meets many WCAG 2.1 Level AA criteria with documented exceptions. <u>Appendix 1</u> of this document provides detailed information about coverage and exceptions. Further information on *i-Ready*'s WCAG documentation is available from your *i-Ready* Partner Success Manager, and <u>further information about WCAG is available from the W3C® WAI</u>.



# **Section 2:** Accommodations Features and Processes for Students Who Are Blind or Have Low Vision

#### 2.1: General Guidance

*i-Ready Standards Mastery* supports some industry-standard accommodation tools for students who are blind or have low vision, and these supports will be expanded moving forward. For students who are blind or have low vision, a proctor may read the text and describe other on-screen material, such as images, as needed. In addition to the supported technologies detailed below, there are other options available that may meet the needs of some students without the use of additional technology or process changes. The following options could be helpful for students:

- A larger monitor (or dual monitors)—The size that works best will depend on the individual (24-inch to 27-inch screens seem to be the most common).
- Increased DPI (i.e., dots per inch) from standard 100% to something larger—This maintains the aspect ratio but makes everything very large (some trial and error may be needed to find what works best).
- Built-in "magnify" option in the operating system—With larger monitors, this can prove useful to some students to reduce scrolling (see Appendix 2 for more detail).\*
- Third-party screen magnification software (MAGic®, ZoomText® Magnifier, etc.)—This type of software may provide the custom tools to adjust the settings to suit the needs of the individual.\*

#### 2.2: Screen Readers

*i-Ready Standards Mastery* has been tested with select screen-reader combinations (JAWS® on Chrome™, NVDA on Firefox® and VoiceOver on Safari®). In *i-Ready Standards Mastery*, screen readers can be used to respond to most items with documented exceptions (as outlined in Appendix 1).

We recommend educators supporting students using a screen reader preview content to ensure items are appropriate for the student and to prepare any additional supports—including tactile graphics—prior to test administration. Educators with access to *i-Ready Standards Mastery* can preview all test forms via the educator dashboard.

Alt text is included for all graphics and non-decorative images. Students who are comfortable using screen readers will likely be able to independently take most parts of the test without educator assistance. However, some test questions—including those that are heavily dependent on complex graphics—will require an educator to supply the student with a tactile graphic or manipulative. For items where a tactile graphic is required, the alt text will briefly tell the student that there is a graphic and direct the student to ask their teacher for a tactile graphic.

In some instances, alt text is provided for complex graphics. That may be sufficient for some students, but a tactile graphic may be helpful to others. In this case, the alt text will end with the following language: "A tactile graphic may help with this question."

There may be items where alt text is insufficient and a tactile graphic or manipulative cannot be provided. In this case, a teacher can advise a student to select a random answer to bypass the item. It is important for teachers to note which item was bypassed and take that into consideration when analyzing the student's score report.

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Firefox® is a registered trademark of the Mozilla Foundation.

Safari® is a registered trademark of Apple, Inc.



<sup>\*</sup>Please note that Curriculum Associates has not extensively tested the third-party and operating system solutions across all supported browsers and platforms, and we cannot make any claims to their reliability and usability with *i-Ready Standards Mastery*.

#### 2.3: Refreshable Braille Displays

In fall 2023, Curriculum Associates will be testing usability of the i-Ready Standards Mastery with refreshable braille displays using the BrailleSense U2 from HIMS, Inc. As noted above, we have i-Ready Standards Mastery with JAWS, NVDA, and VoiceOver, and each of these screen readers can be used with some refreshable braille displays.

#### 2.4: Color Contrast/Visual Design

Examples of features that will benefit students who have low vision and/or have color blindness include:

- Meeting the WCAG 2.0 AA color-contrast requirements for text against background with documented exceptions and WCAG 2.1 AA color-contrast requirements in some places for non-text elements against a background (see Appendix 1: Coverage/Exceptions for more details)
- Minimizing the use of colors that would cause problems for students with color blindness, particularly those with red-green color blindness
- Presenting items in a large, easily legible format specifically chosen for its readability

However, there are documented exceptions (see Appendix 1) that may impact some students. Additionally, we are evaluating approaches to meet the expectations of the WCAG 2.1 Level AA standards, which extend the color-contrast requirement to technical artwork (e.g., bar graphs, charts, icons).

## Section 3: Accommodations Features and Processes for Students Who Are Deaf or Hard of Hearing

#### 3.1: General Guidance

Standards Mastery for Reading includes a small number of items containing videos that have closed captioning. Provided the student can read the text presented on the screen, i-Ready Standards Mastery can be used by students who are deaf or hard of hearing.

Students who are deaf or hard of hearing may have the test directions signed to them. However, signing the questions and response options for the students is not suggested by Curriculum Associates, as it may undermine the validity of the resulting test scores. The use of auditory amplification devices, hearing aids, noise buffers, etc. are permitted accommodations for i-Ready Standards Mastery that can be considered based on individual student needs and any IEP or 504 plan available for the student.



## Section 4: Accommodations Features and Processes for Students with Learning Disabilities or Differences Such as Dyslexia

Although i-Ready cannot be used as a diagnostic tool to identify students with dyslexia, the i-Ready Dyslexia Screener combines the i-Ready Diagnostic with a one-on-one, task-based system to screen for potential risk factors for dyslexia.

Many states have detailed requirements for dyslexia screening. For more information about how i-Ready can help identify and support students in your state, please contact your partner success manager.

For students who have been identified as exhibiting risk factors for dyslexia or have received a formal diagnosis of dyslexia, the i-Ready Assessment suite has some relevant characteristics to help those students demonstrate their reading and mathematics proficiency on these assessments. Many of the assessments in the i-Ready Assessment suite engage students' auditory, visual, and kinesthetic pathways through multiple approaches, which can be beneficial to students with dyslexia or risk factors for dyslexia. Some of the ways these assessments meet students' multisensory needs include:

- Tech-enhanced item types: These assessments include many innovative item types that involve kinesthetic engagement and leverage the value of a digital online assessment platform. Innovative item types include:
  - Drag-and-drop
  - Dropdown
  - Text highlighting
- Audio and visual: The assessments have universal accessibility features that address audio and visual sensory needs and are available to all students.
- Attentional anchors: For students who require support for the stamina of their auditory, visual, or cognitive attention, the assessment incorporates additional multisensory stimuli to anchor student attention, including:
  - Supporting images
  - Multimedia elements



## Section 5: Text-to-Speech and Test-Read/Read-Aloud Accommodations

#### 5.1: Text-to-Speech

Although some third-party browser extensions may be able to read aloud some portions of the text in i-Ready Standards Mastery, use of these extensions is not recommended at this time, as initial testing for validity and usability have shown a high degree of variance based on the item type, extension, browser, hardware, etc.

#### 5.2: Test-Read/Read-Aloud Accommodations

Test-read/read-aloud accommodations may be appropriate for individual students. This option should be considered based on individual student needs and any IEP or 504 plan available for the student. When it is appropriate, reading aloud question stems and the associated answer choices of Reading items can be implemented for ensuring the least impact on the validity of the inferences that can be made from test scores.

Educators providing accommodations, specifically human read aloud and scribing, need to be neutral in responding to the student during test administration and must not lead a student to a particular item response. Each student's response must accurately represent their choice in order to ensure valid, reliable assessment results.

Reading aloud other content, especially passages, will impact validity and inferences that can be made from the test scores, as the items were not field tested in this manner. Districts should carefully review students' individual plans in making decisions about the provision of this (and all) accommodation(s) and should consider which accommodations were provided when interpreting scores.

## Section 6: i-Ready Standards Mastery and Students with Severe Cognitive Disabilities

i-Ready Standards Mastery does not currently have an Alternate Assessment version built on Alternate Achievement Standards. Additionally, i-Ready Standards Mastery has not been evaluated for use with students with severe cognitive disabilities who are nonverbal. We encourage teachers to review i-Ready Standards Mastery to evaluate if it would be appropriate for use by each student.

## Section 7: i-Ready Standards Mastery and Print/ Paper and Pencil Accommodations

i-Ready Standards Mastery items are technologically enhanced and many item types include interactivity. Because of the interactive nature of these items, there are no paper versions available.



## Appendices

#### Appendix 1: Coverage/Exceptions

See information on known documented exceptions for various universal accessibility- and accommodations-related features available in *i-Ready Standards Mastery* below.

#### **Audio Descriptions**

Not currently available

#### **Universal Audio Support**

Not available

#### **Closed Captioning**

Available with all Standards Mastery video content

#### **Keyboard Navigation**

Exceptions include:

• The "highlight question" item type is currently not supported by keyboard navigation.

#### **Screen-Reader Support**

Exceptions include:

• Drag-and-drop and highlight question types

#### **Color Contrast for Text (Using WCAG 2.0 AA Requirements for Minimum Contrast)**

Exceptions may include:

- Text embedded in images or graphics within an item may not meet WCAG 2.0 Level AA requirements for minimum contrast.
- Some graphs and charts may not all meet WCAG 2.1 Level AA standards.



#### Appendix 2: Using Magnification Features in Desktop Computers

Magnifier makes part or all of a screen bigger so students can see words and images better.

#### **Enabling Magnifier in Windows®**

#### **Turning Magnifier On and Off**

- To turn Magnifier on: Press the Windows logo key and the plus sign (+) on the keyboard.
- To turn Magnifier off: Press the Windows logo key and the Esc key.
- To turn Magnifier on and off using touch or a mouse: Select the Start button, then select Settings > Ease of Access > Magnifier, and switch on the toggle under Turn on Magnifier.

You can also turn off Magnifier by selecting the **Close** button on the Magnifier toolbar.

#### **Zoom In and Out and Use of Magnifier Views**

When Magnifier is on, zoom in and out by pressing the Windows logo key and the plus sign (+) or Windows logo key and the minus sign (-).

You can also zoom in and out using the mouse by pressing **Ctrl + Alt** and rotating the wheel on your mouse.

You can use Magnifier in three different views: full screen, lens, or docked. To change views, use the **Views** menu on the Magnifier toolbar.

Full-screen view magnifies the entire screen. You won't be able to see the whole screen at the same time, but you'll see parts of it as you move around.

**Lens view** is like moving a magnifying glass around the screen. You can change the size of the lens in Magnifier settings.

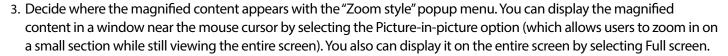
**Docked view** works on the desktop. In this view, Magnifier is anchored to your screen. As you move around the screen, parts of the screen are magnified in the docking area even though the main part of the screen is unchanged.

Further information about the Magnifier feature in Windows is available here.

#### **Enabling Zoom on the Mac**

If items on the screen are too small, you can zoom in to make content larger and easier to see. You can zoom in on the entire screen or a portion of the screen.

- 1. To set zoom options, choose Apple® menu > System Preferences > Accessibility > Zoom.
- 2. Enable either of the following options:
  - To zoom with keyboard shortcuts, select "Use keyboard shortcuts to zoom."
  - To zoom with your mouse or trackpad, select "Use scroll gesture with modifier keys to zoom."



The macOS® User Guide contains quidance on enabling Zoom appearance and controls options.

Additional information on built-in operating system Zoom controls for iPads and Chromebooks can also be found on the links below:

- iPads
- Chromebooks

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#### Appendix 3: Keyboard Commands for Common Screen Readers

Screen-reader users who use JAWS, NVDA, or VoiceOver applications to navigate accessible areas of i-Ready Standards Mastery can use the information below for relevant keyboard shortcuts.

#### JAWS for Windows Keyboard Shortcuts—Best Used with Chrome Browser

Screen-reader users may reference information on JAWS keyboard shortcuts.

#### **NVDA for Windows Keyboard Shortcuts—Best Used with Firefox Browser**

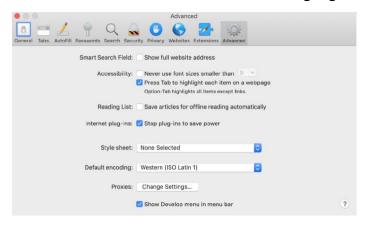
Please note that some keyboard shortcuts require using the NVDA modifier key. Additional information about the NVDA modifier key and keyboard shortcuts in NVDA is available in the NVDA User Guide.

#### **VoiceOver for Mac Keyboard Shortcuts—Best Used with Safari Browser**

Please note that keyboard accessibility is NOT enabled by default on a Mac. To set up a Mac for students who rely on keyboard access, or to set up a Mac to try keyboard access as your students will experience it, keyboard accessibility can be enabled as follows:

#### How to Enable Tabbing for Keyboard Navigation in Safari:

- 1. Open the Safari browser.
- 2. Click on the Safari menu.
- 3. Select Preferences.
- 4. Select the **Advanced** tab.
- 5. Select the checkbox next to "Press tab to highlight each item on a webpage."



#### Appendix 4: i-Ready Standards Mastery—MathML

#### How to Read MathML in NVDA with Firefox and MathPlayer

- To enter mathematics, use Insert + Alt + M.
- To explore in more detail, use the **down arrow**.
- To explore in less detail, use the **up arrow**.
- When mathematics content is encountered, the full equation will be read.
- To go to previous or next item/segment, use the **left arrow** or **right arrow**.
- To exit mathematics, press the **Esc. key**.

#### How to Read MathML in JAWS with Chrome

- To enter mathematics, press **space** or **enter** while on the math.
- To explore in more detail, use the **down arrow**.
- To explore in less detail, use the up arrow.
- When mathematics content is encountered, the full equation will be read.
- To go to previous or next item/segment, use the **left arrow** or **right arrow**.
- To exit mathematics, press the Esc. key or Alt + F4.

#### How to Read MathML in VoiceOver with Safari

Mathematics navigation is the same as the default navigation:

- To explore in more detail, use control + option (or customized VoiceOver key) shift + down arrow.
- To explore in less detail, use **control** + **option** (or customized VoiceOver key) **shift** + **up arrow**.
- To go to previous or next item, use control + option (or customized VoiceOver key) left arrow or right arrow.