System Requirements

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1. Introduction

i-Ready is a comprehensive assessment and instruction program comprising digital components such as an adaptive Grades K–12 Diagnostic and Grades K–8 Personalized Instruction. These digital components are accessed through the *i-Ready Connect* platform. This document summarizes the requirements for running *i-Ready Connect*, along with the procedures for checking your system requirements. *i-Ready Connect* provides access to *i-Ready Assessment, i-Ready Personalized Instruction, i-Ready* Learning Games*, i-Ready Classroom Mathematics, Magnetic Reading*™*,* and Teacher Toolbox*.

2. Upcoming Requirements for Back to School 2022

Curriculum Associates strives to make classrooms better places for students and teachers through engaging, motivating, and interactive learning experiences. As *i-Ready* continues to improve for teachers and students, our network requirements will change over time. Below is a preview of what is changing for Back to School 2022.

2.1 Network Requirements for the 2022–2023 School Year

The minimum amount of bandwidth required to use *i-Ready* will increase to 768Kbps per active user (2Mbps per active user recommended).

Increased bandwidth will provide a better learning experience for students. It allows for smooth transitions, faster downloading of content, and a more engaging experience in *i-Ready* content. However, it is important to know that other variables can greatly influence the way the overall system performs regardless of the amount of bandwidth. These variables may include the number of concurrent users, low-performing devices, security appliances (e.g., content filter and firewall), jitter, and latency.

2.2 iPad® Support for the 2022–2023 School Year

For the best experience, we recommend a minimum of iOS 15.1 or higher with the latest OS updates to run the *i-Ready Connect for Students* app. While not recommended, students with iPads using iOS 14.8 will still be able to use the *i-Ready for Students* app until the end of the 2022–2023 school year. iOS 13 will no longer be supported.

2.3 Supported Browsers and Operating Systems (OS) for the 2022–2023 School Year

The table below outlines the browsers and operating systems that will be supported for the 2022–2023 school year.

OS and browser requirements are listed in the following table:

Operating System	Edge®	Safari®	Firefox®	Chrome®
Windows® 7 SP1	101 or higher	N/A	98 or higher	101 or higher
Windows® 10 21H2	101 or higher	N/A	98 or higher	101 or higher
Windows® 11	101 or higher	N/A	98 or higher	101 or higher
OS X 10.14 or higher	101 or higher	N/A	98 or higher	101 or higher
OS X 10.15 or higher	101 or higher	15.1 or higher	98 or higher	101 or higher
Chrome™ OS	N/A	N/A	N/A	101 or higher

3. Current System Requirements

3.1 Supported Browsers and Operating Systems (OS)

OS and browser requirements are listed in the following table:

Operating System	Edge	Safari	Firefox	Chrome
Windows 7 SP1	*	N/A	88 or higher	90 or higher
Windows 10 20H2 October 2020 Update	90 or higher	N/A	88 or higher	90 or higher
OS X 10.13 or higher	*	**	88 or higher	90 or higher
OS X 10.14 or higher	**	14.1 or higher	88 or higher	90 or higher
Chrome OS	N/A	N/A	N/A	90 or higher

*Edge on Windows 7 and MacOS® have not been fully tested and therefore are not supported for use with *i-Ready* at this time.

**Safari 13.1 is the latest version that is allowed on OS X 10.13. This version can be used for *i-Ready* but has not been fully tested and therefore is not recommended.

For the best user experience, Curriculum Associates recommends Google Chrome for Windows, MacOS, and Chrome OS devices. Enabling auto-update is strongly recommended. For details regarding user experience with different browser versions, please see our Technical FAQ guide located here: http://i-readycentral.com/pdfs/i-ready-technical-faqs-troubleshooting-guide/.

Note: Android™ devices are blocked at this time. Additionally, *i-Ready* may occasionally block older versions of browsers as newer versions are released. Forced Dark Mode in Chrome is untested and therefore not recommended at this time.

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3.2   Firewall/Content Filter Requirements

Firewalls, content filters, proxy servers, and virus-scanning software can all significantly degrade performance, even in cases where network bandwidth appears sufficient. Because of this, we strongly recommend adding the sites below to a URL Bypass List:

Wildcard Bypass List	Full Domain Bypass List	Full Domain Bypass List, Cont'd.
• *.i-ready.com • *.vidyard.com • *.cainc.com • *.curriculumassociates.com • *.i-readyconnect.com • *.readycentral.com • *.learnosity.com • *.cloudfront.net • i-readycentral.com • readyclassroomcentral.com • teacher-toolbox.com	• login.i-ready.com • cdn.i-ready.com • cainc.i-ready.com • content.i-ready.com • connect.i-ready.com • i-readyconnect.com • help.i-ready.com • sso.i-ready.com • oel.i-ready.com • resource-library.i-ready.com • teacher-toolbox.i-ready.com • i-readycentral.com • math.readycentral.com • readyclassroomcentral.com • securemail.cainc.com • sftp.i-ready.com • teacher-toolbox.com • pd.i-ready.com • hec.i-ready.com • ca.vidyard.com • play.vidyard.com • share.vidyard.com • cdn.vidyard.com • embed.vidyard.com • support.curriculumassociates.com	• items.learnosity.com • items-va.learnosity.com • assess.learnosity.com • assess-va.learnosity.com • questions.learnosity.com • questions-va.learnosity.com • eventbus.learnosity.com • eventbus-va.learnosity.com • events.learnosity.com • reports.learnosity.com • events-va.learnosity.com • reports-va.learnosity.com • assets.learnosity.com • annotations.learnosity.com • annotations-va.learnosity.com • shared.learnosity.com • dw6y82u65ww8h.cloudfront.net • g.i-ready.com • g-api.i-ready.com • g-accounts.i-ready.com • g-statsc.i-ready.com
Ports to Allow:	443 and 80	

Note: Please also make sure info@about.curriculumassociates.com is added to your email client as a safe sender in order to receive information about product updates.

4. *i-Ready Connect* Support for the iPad

i-Ready Connect is available to students using supported iPads through the *i-Ready Connect for Students* app.

We support a minimum of iOS 14.1 to run the *i-Ready Connect for Students* app. However, to ensure students are receiving the latest security updates, we strongly advise enabling automatic updates. *i-Ready* will no longer work with iOS 12 after July 2021. Educators will want to ensure students are using an iPad that supports iOS 14.1 or higher with the latest OS updates. Students with iPads on iOS 13.1 will still be able to use the *i-Ready Connect for Students* app, but this is not recommended.

The iPad app is free and available for download through the Apple App Store®. Note that iPad minis® are not recommended, and the *i-Ready Connect for Students* app is not accessible on other tablets nor on the iPhone®.

For single sign-on iPad users (e.g., Clever®, ClassLink™), Google Chrome will not work. Mobile Safari, the Clever app, and the ClassLink app are all supported login methods on iPads.

We fully support all iPad models that meet the following criteria:

- A8X Chipset or greater
- Supports iOS 14.1 or greater
- Screen resolution: 2048 x 1536 at 264 pixels per inch (ppi)
- Screen diagonal of 9.7 inches or greater*

Note: iOS 11 and 12 are blocked.

App Store®, iPad mini®, and iPhone® are registered trademarks of Apple, Inc. ClassLink™ is a registered trademark of ClassLink, Inc. Clever® is a registered trademark of Clever, Inc. IOS is a trademark or registered trademark of Cisco in the US and other countries and is used under license.

5. General Requirements

5.1 Browser Settings

i-Ready Connect requires the following settings for the web browser:

- JavaScript® must be enabled.
- Cookies must be enabled.
- Pop-ups must be allowed for connect.i-ready.com for teacher reports.

JavaScript® is a registered trademark of Oracle, Inc. and its affiliates.

5.2   Minimum Computer Hardware Requirements

Curriculum Associates works toward expanding support for as many devices as possible; the listed hardware specs apply to Windows, MacOS, and Chromebook machines. Hybrid tablets or touch screen–enabled device performance may vary and cannot be listed as tested and approved devices. Please contact our Support team for questions regarding hardware support.

	Windows	MacOS	Chromebook
CPU	Intel® Core™ i3 1.7 GHz (base) or better	Intel® Core™ 2 Duo 2.0 GHz	1.6 GHz or faster **(except dual-core Exynos processors)**
Memory	4 GB or higher	4 GB or higher	2 GB or higher
Video RAM	256 MB or higher	256 MB or higher	256 MB or higher
Video Resolution	1024 x 768 or greater	1024 x 768 or greater	1024 x 768 or greater
Sound Card and Headphones/Speakers	Yes	Yes	Yes

5.3   Network Requirements

Curriculum Associates strives to bring students and educators the best content and experience possible. Our move to HTML5 has made the student learning experience more interactive and engaging than ever. As a result of this improved interaction and engagement, the minimum per active user bandwidth requirement is 512Kbps, with a recommended 1.5Mbps per active user. As we continue to improve the richness and interactivity of the student experience every year, we recommend 1.5Mbps or higher per device.

Variables such as the number of users, low-performing devices, security appliances (e.g., content filter and firewall), jitter, latency, and so on can greatly influence the way the overall system performs regardless of the amount of bandwidth. For home users, available bandwidth, access point saturation, other users in the home streaming content, as well as many other factors, can all affect *i-Ready Connect* performance.

6. Checking Your Computers

The following webpage includes a utility that checks your computer's configuration and network health to make sure *i-Ready Connect* will run smoothly:

http://cdn.i-ready.com/systemcheck

For additional support:
Email: i-ReadySupport@cainc.com
Phone: (800) 225-0248
Mon–Fri 7:00 a.m.–9:00 p.m. ET

7. Email Communications Requirements

Email sent from Curriculum Associates (the *i-Ready* and *Ready* teams) comes from the following email domains and must be allowed by your school's or district's technology team to reliably receive implementation support and critical system updates communications:

Email Domains	Email IPs
@cainc.com @i-ready.com @curriculumassociates.com @about.curriculumassociates.com	13.111.68.105

Occasionally, email communications sent by Curriculum Associates do not reach our educators. Below are some common issues and resolutions to allow for the reliable receipt of our emails. If you believe you are not receiving email from us, please do the following:

- **Check your spam filter.** Emails from Curriculum Associates may be seen by your email client as promotional material, junk, or clutter. Checking these folders regularly and flagging our emails as coming from an approved sender will ensure educators stay current with our communications and receive the most up-to-date, best-practice implementation guidance. Look in your spam, junk, or bulk folder for the email. If it is in one of those folders, add the email address to the safe sender list in your email client.

- **Check your Gmail tabs.** If you are on a Gmail-based email system (Google Apps for Business/Education): in order to ensure you see communications emails from us, you may want to ensure they appear in your "primary" tab by dragging the email from another tab to the "primary" section.

- **Contact your district IT team.** If the email communication is not in your spam, junk, or bulk folder, it is possible that your district's IT team is using a filtering device (firewall/content filter) that is blocking or slowing down the communication. The team will also be able to tell if the district may be blocking one or more of the IP addresses that we use for our communications. If a district blocks any of these IP addresses, educators may not receive the email from Curriculum Associates (including the *i-Ready* and *Ready* teams). Asking the IT team to allow the IP addresses and email domains listed above is the best solution to resolve blocked emails.

8. User Provisioning and Single Sign-On (SSO) Requirements

8.1 User Provisioning

Curriculum Associates has the ability to provision data using multiple methods. The preferred provisioning method is Auto Provisioning (AP), which can be accomplished in the following ways:

- District can send data to Curriculum Associates (APCSV)

- For some SISs, Curriculum Associates can access the district's database and pull the data.

- Clever Secure Sync

- OneRoster® 1.1 data standard

8.2 SSO

SSO can be performed using one of the following methods:

- Clever SSO
  - Clever Badges and Clever Portal are both supported.
- SAML Authentication
  - Examples include: ADFS, ClassLink, Stoneware, and other SSO portals that support SAML 2.0

For additional details regarding User Provisioning or SSO, please contact your account manager or sales representative.

OneRoster® is a trademark of the IMS Global Learning Consortium, Inc.

9. Miscellaneous Requirements

9.1   Smart Punctuation for the iPad

Smart Punctuation is a feature that replaces some punctuation with something more typographically suitable, for example "straight" quotes with "smart" quotes. As a result, students with an apostrophe (') in their usernames may see an error message when logging in to *i-Ready Connect*, even when their usernames and passwords are inputted correctly.

This issue is a result of Apple's implementation of Smart Punctuation and may affect some students using *i-Ready Connect* as well as other educational software accessed through an iPad. To prevent potential login issues, we encourage educators to disable "Smart Punctuation" in iOS by following these instructions:

1. Go to "Settings"
2. Go to "General"
3. Go to "Keyboards"
4. Disable "Smart Punctuation"

9.2   *i-Ready Classroom Mathematics* eBooks

For schools using our *i-Ready Classroom Mathematics* eBooks, here are the following additional requirements to integrate the eBook directly with a learning management system (LMS). The LMS must support the following IMS Global standards:

- Thin Common Cartridge (TCC)® v1.3
- Learning Tools Interoperability (LTI)® v1.0 or 1.1

9.3   Accessibility

If you want to learn more about accessibility features and accommodations:
- **Educators:** Contact your account manager or local Curriculum Associates educational consultant.
- **Families:** Contact your student's teacher or school leader.

Thin Common Cartridge (TCC)® and Learning Tools Interoperability (LTI)® are trademarks of the IMS Global Learning Consortium, Inc. (www.imsglobal.org).

10. Future Hardware Support

10.1 Future iPad Support

Apple typically provides approximately four to six years of support to new devices. In keeping with manufacturer support timelines, access to *i-Ready Connect* via older iPads will be blocked in future releases.

10.2 Future Chromebook Support

Some older Chromebooks are no longer eligible for auto-updates, including security fixes. While *i-Ready* will only block devices that cannot run our minimum allowed version of Chrome, as noted in the previous section, we recommend schools phase out other devices that can no longer receive security fixes, since they may be vulnerable to attacks over time.