TE★AS ASSESSMENT

CA Cambium Assessment

Minimum System Requirements for 2021–2022

The following tables provide specifications that apply to all online assessments administered during the 2021–2022 school year for the Texas assessment program.

Desktops and Laptops		
Supported Operating Systems	Minimum Requirements	Recommended Specifications
Windows 8, 8.1 (Professional and Enterprise), 10, 10 in S Mode (Educational, Professional, and Enterprise) (Versions 2004-21H1[a]), and 11[a] Server 2012 R2, 2016 R2 (thin client)	1 GHZ Processor[b] 2 GB RAM (64-bit) 20 GB hard drive (64-bit)	1.4 GHZ Processor 2 or more GB RAM 20 or more GB hard drive space
macOS 10.13 through 10.15, 11.4, and 12[a]	1 GHZ Processor[c] 2 GB RAM (64-bit) 20 GB hard drive (64-bit)	1.4 GHZ Processor 2 or more GB RAM 20 or more GB hard drive space
Linux (64-bit)[d] Fedora 30-33 LTS (Gnome)	1 GHZ Processor 2 GB RAM (64-bit) 20 GB hard drive (64-bit) Required libraries/packages: GTK 3.14 or higher X.Org 1.0 or higher (1.7+ recommended) libstdc++ 4.8.1 or higher GNOME 2.16 or higher glibc2.17 or higher	1.4 GHZ Processor 2 or more GB RAM 20 or more GB hard drive space Recommended libraries/packages: In addition to the required libraries listed under minimum requirements, the following should be installed: NetworkManager 0.7 or higher DBus 1.0 or higher PulseAudio
Linux (64-bit)[d] Ubuntu 18.04, 20.04 LTS (Gnome)	1 GHZ Processor 2 GB RAM 20 GB hard drive space In addition to all libraries and packages listed above, Ubuntu 18.04 LTS (Gnome) also requires the following libraries: Sox Net-tools	1.4 GHZ Processor 2 or more GB RAM 20 or more GB hard drive space

[a] Support for this version is anticipated upon the completion of testing following its release.

[b] Intel, AMD, and ARM devices are supported. ARM devices require x64 emulation.

[c] Intel and Apple silicon devices are supported. Apple silicon devices require Rosetta 2.

[d] Raspberry Pi and other similar single-board computers are not supported for testing.

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For a list of supported tablets and Chromebooks, see the following table.

Tablets and Chromebooks	
Supported Operating Systems	**Supported Tablets**
iPadOS 13.7, 14.5, 15[a]	All 9.7" or larger iPads running a supported version of iPadOS.
Windows 8, 8.1 (Professional & Enterprise) 10 (Educational, Professional, & Enterprise)	CAI supports any tablet running these versions of Windows but has done extensive testing only on Surface Pro, Surface Pro 3, Asus Transformer, and Dell Venue.
Chrome OS 91+	For a full list of supported Chromebooks, see https://support.google.com/chrome/a/answer/6220366. Chromebooks manufactured in 2017 or later must have an Enterprise or Education license to run in kiosk mode, which is necessary to run the secure browser application. Chromebooks running in tablet mode and tablets running Chrome OS are not supported. Touchscreen features can be used on Chromebooks when available. CAI only supports versions of Chrome OS released on Google's stable channel.

[a] Support for this version is anticipated upon the completion of testing following its release.

For a list of supported NComputing solutions for Windows, see the following table.

NComputing		
Supported Server Host	**Supported Server Software**	**Supported Terminal**
Windows Server 2012 R2 Windows Server 2016 R2 Windows 10	vSpace PRO 10	L300, L350, firmware version 1.13.xx

For a list of supported terminal servers for Windows, see the following table.

Terminal Servers	
Supported Terminal Server	**Supported Thin Client**
Windows Server 2012 R2, 2016 R2	Any thin client that supports a Windows server can be used. Thin clients allow access only to the program running on the host machine. Zero clients, which allow access to other programs on the client machine, are not supported. Using a terminal services or remote desktop connection to access a Windows Server or workstation that has the secure browser application installed is typically not a secure test environment.

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Devices running CloudReady NeverWare are also supported. For information on these supported devices and installation instructions, please visit https://www.neverware.com.

All supported computers, laptops, tablets, and approved testing devices must meet the following requirements.

Testing Device	Requirement
Screen Dimensions	Screen dimensions must be 10" or larger (iPads with a 9.7" display are included).
Monitors and Displays	All devices must meet the minimum resolution of **1024 x 768**. Larger resolutions can be applied as appropriate for the monitor or screen being used. Your device's display scale should be set to 100% to keep the amount of usable screen real estate within the 1024 x 768 minimum resolution for the Test Delivery System. A secure testing environment can only be guaranteed when using a single display. A multi-monitor configuration is not supported.
Keyboards	The use of external keyboards is required for tablets that will be used for testing. On-screen keyboards take screen real estate away from the test and may make typing responses more difficult. For iPads, the following are examples of external keyboards: • iPad 8th Generation: Logitech Rugged Combo or Logitech Combo Touch • iPad Air 3rd Generation: Apple Magic Keyboard or Apple Smart Folio Keyboard • iPad Pro: Air Keyboard
Mice	Wired two- or three-button mice can be used on desktops or laptops. Mice with "browser back" buttons should not be used.

Headphones, Microphones, and Headsets
 	
Required for:
• STAAR Speech-to-Text
• TELPAS Listening and Speaking
	Wired headphones, microphones, handheld devices, and headsets with a 3.5 mm connector, or USB headphones or headsets, must be compatible with the requirements below:
	• Headphone Features
	   o Sound Mode: Stereo
	   o Earpiece: Double
	   o Driver Unit Size: 32 mm
	   o Frequency Response: 20–20000 Hz
	   o Impedance: 32 ohms
	• Microphone Features
	   o Frequency Response: 100–12000 Hz
	   o Impedance: 3320 ohms
	• Handheld Device Headphones and Microphones:
	   o 3.5 mm single jack
	   o Over-the-ear style (non-earbud)

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