

Technology Requirements for ACCESS for ELLs 2.0[®] Operational Test

The online [ACCESS for ELLs 2.0](#), operational in 2015-16, is designed to assess English learners' English language proficiency in reading, writing, listening, and speaking. To minimize the planning burden on districts, the technical requirements match the [PARCC](#) and [Smarter Balanced](#) consortia requirements whenever possible.

Operating systems and devices

Operating System/Device	Recommended Minimum	
	Current Devices	New Purchases
Windows		
Version	7 or newer	7 or newer
Processor	1.4 GHz or faster	1.4 GHz or faster
Memory (RAM)	1 GB or more	1 GB or more
Free drive space	1 GB or more	1 GB or more
Mac OSX		
Version	10.5	10.7 or newer
Processor	Intel x86 or PowerPC G5 800 MHz	1 GHz or faster
Memory (RAM)	512 MB	1GB or more
Free drive space	200 MB	1 GB or more
Linux		
Version	Ubuntu 9-10 or Fedora 6	Ubuntu 11.0 or Fedora 16 or newer
Processor	Pentium or AMD 500 MHz	1 GHz or faster
Memory (RAM)	512 MB	1 GB or more
Free drive space	200 MB	1 GB or more
Chrome		
Version	Chrome OS 19	Chrome OS 19 or newer
iOS		
Version	iPad 2 with iOS 7	iPad Air with iOS 7 or newer
Android		
Version	4.0	4.0 or newer
Windows Tablets		
Version	Windows 8	Windows 8 or newer

Additional Requirements for all operating systems and devices

Requirement
Screen
<ul style="list-style-type: none"> • Size: 9.5-inch or larger • Resolution: 1024 x 768 or higher
Keyboards
<ul style="list-style-type: none"> • External keyboard • Mouse, touchpad, or touch screen • Alternative input devices if allowable accommodations
Headsets
<ul style="list-style-type: none"> • Headset with microphone required • Recommendations for Purchasing Headsets
Security
<ul style="list-style-type: none"> • Must be able to manage user security settings to temporarily disable some features, such as email, messaging, screen capture, unrestricted Internet access, and so on

Considerations for tablet users

Consideration
Network
<ul style="list-style-type: none"> • The number of concurrent users may be limited when using wireless access • It has not yet been determined whether Bluetooth devices will be allowable
Screen size
<ul style="list-style-type: none"> • Minimum 9.5-inch screen with 1024 x 768 or higher resolution
Keyboard
<ul style="list-style-type: none"> • External keyboard required to minimize scrolling for graphics-intensive items
Headsets
<ul style="list-style-type: none"> • Some tablets may require use of an adaptor • Recommendations for Purchasing Headsets
Operating system
<ul style="list-style-type: none"> • Due to the variety of devices and operating systems, a device certification process may be required

Network

The table below reflects minimum and recommended bandwidth requirements. Additional concurrent network activities will reduce the bandwidth available for testing. See the State Education Technology Directors Association publication [The Broadband Imperative](#) for more information about bandwidth targets for assessment and instruction.

Local Caching?	Bandwidth (per student)	
	Minimum	Recommended
Yes	20-50 kbps	50 kbps or more
No	40-100 kbps	100 kbps or more