

This brochure is for the online test administration of the Smarter Balanced assessments in English Language Arts/Literacy and Mathematics. Coordinators should consult the *Technical Specifications Manual for Online Testing* and the *System Requirements for Online Testing* for more detailed information.

## SECURE BROWSERS

A secure browser must be downloaded and installed on each computer and device used for student testing. For explicit instructions on downloading and installing the secure browsers, refer to the *Secure Browser Installation Manual*.

Supported Operating Systems	Supported Secure Browser
<b>Windows</b> Vista, 7, 8.0 (Professional), 8.1, 10 (Educational and Professional), 11 Server 2008, 2012 (thin client)	9.0
<b>Linux</b> Fedora 23–25 openSUSE 13.1, 13.2 Red Hat Enterprise 6.5 Ubuntu 12.04, 14.04 (LTS), 16.04 (LTS)	9.0
<b>Mac OS X (Intel)</b> 10.6–10.12	9.0
<b>iOS (iPads)</b> 7.0–10.x	<b>Android</b> 4.4–6.0 AIRSecureTest Mobile Secure Browser
<b>Chrome OS</b> 50+	AIRSecureTest kiosk application

**All supported computers, laptops, tables, and approved testing devices must meet the following requirements:**

### Screen Dimensions

Screen dimensions must be 10" or larger (iPads with a 9.7" display are included).

### Screen Resolution

All devices must meet the minimum resolution 1024 x 768. Larger resolutions can be applied as appropriate for the monitor or screen being used.

### Keyboards

The use of external keyboards is highly recommended for tablets that will be used for testing. Students may use mechanical, manual, and Bluetooth-based keyboards.

### Headphones

Wired headphones with a 3.5 mm connector or USB headphones (wired) are recommended over Bluetooth, as they provide better clarity and accuracy. For a full list of approved models, see the *System Requirements for Online Testing*.

## BASIC HARDWARE REQUIREMENTS

Desktops		
Supported Operating Systems	Minimum Requirements	Recommended Specifications
<b>Windows</b> Vista, 7, 8.0 (Professional), 8.1, 10 (Educational and Professional), 11 Server 2008, 2012 (thin client)	Pentium 4 or newer processor that supports SSE2 512 MB of RAM 200 MB hard drive space	Pentium 4 or newer processor that supports SSE2 2GB+ RAM 80 GB+ hard drive
<b>Linux</b> Fedora 23–25 openSUSE 13.1, 13.2 Red Hat Enterprise 6.5 Ubuntu 12.04, 14.04 (LTS), 16.04 (LTS)	Intel x86 processor 512 MB of RAM 200 MB hard drive space Required libraries/packages: <ul style="list-style-type: none"> <li>• GTK+ 2.18 or higher</li> <li>• GLib 2.22 or higher</li> <li>• Pango 1.14 or higher</li> <li>• X.Org 1.0 or higher (1.7+ recommended)</li> <li>• libstdc++ 4.3 or higher</li> <li>• libreadline6:i386 (required for Ubuntu only)</li> </ul> GNOME 2.16 or higher	Pentium 4 or newer processor 2 GB RAM 80 GB hard drive Recommended libraries/packages: In addition to the required libraries listed under minimum requirements, the following should be installed: <ul style="list-style-type: none"> <li>• NetworkManager 0.7 or higher</li> <li>• DBus 1.0 or higher</li> <li>• HAL 0.5.8 or higher</li> </ul>
<b>Mac OS X (Intel)</b> 10.6–10.12	Intel x86 processor 512 MB of RAM 200 MB hard drive space	Pentium 4 or newer processor 2+ GB RAM 80+ GB hard drive
Tablets and Chromebooks		
Supported Operating Systems	Supported Tablets	Related Requirements
<b>iOS (iPads)</b> 7.0–10.x	iPad 2                      iPad Air iPad 3                      iPad Air 2 Fourth-generation (Retina Display)	See the <i>Technical Specifications Manual for Online Testing</i> for information about configuring iOS for online testing.
<b>Android</b> 4.4–6.0	Google Nexus 10      Samsung Galaxy Motorola Xoom        Tab 3 and 4 Samsung Galaxy      LearnPad Quarto Note (2014 edition)	See the <i>Technical Specifications Manual for Online Testing</i> for information about configuring devices for online testing.
<b>Windows</b> 8.0 (Professional), 8.1, 10 (Educational and Professional), 11	AIR 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.	
<b>Chrome OS</b> 50+	Chromebook	See the <i>Secure Browser Installation Manual</i> for information about installing the secure browser in kiosk mode, a requirement for online testing.