In spring 2014, the Partnership for Assessment of Readiness for College and Careers (PARCC) Field Test will be administered to over one million students across PARCC member states. The purpose of this document is to assist schools in confirming that they have the capacity to administer PARCC’s computer-based field tests. The technology specifications contained in this document provide detailed information about the types of devices that students can use to take field tests, the amount of bandwidth that will be required to support online testing, and the various features, including accommodations, that students will have access to in PARCC’s computer-based testing environment.

PARCC is committed to delivering the 2014-2015 operational assessment to the broad range of devices that schools are using for instruction, assessment, and professional development. However, some parts of the PARCC assessment delivery system will be in development during the PARCC Field Test year; as a result, a few operating systems and accessibility features will not be supported during the PARCC Field Test. More detailed systems check tools, training sessions, and other technology implementation guidance for the PARCC Field Test will be released in October 2013.

In addition, to assist schools in preparing for 2014-2015 operational assessment, PARCC will release a practice test in Spring 2014, which will include all accessibility features and be compatible with all the operating systems that will be supported during the full operational assessment. Through the practice test, schools will be able to test their local systems with compatible PARCC assessment items and administrative tools. All devices and accessibility features will be available for all operating systems defined in the PARCC Technology Guidelines (<http://www.parcconline.org/technology>) for the 2014-2015 operational assessments.

***PLEASE NOTE: Full Technology Specifications for PARCC Field Test V1.2* updates,and therefore supersedes, the Version 1.1 document previously released in September 2013.**

Updates in Version 1.2 include:

* Updated chart summarizing the Accessibility Features and Accommodations Enabled for Computer-Based Test Administration in PARCC Field Test and Operational Administration
* Browser Specifications for the PARCC Field Test

**DEVICE SPECIFICATIONS FOR THE PARCC FIELD TEST**

Devices that will be supported for the **PARCC Field Test** are detailed below and include selected desktops, laptops, netbooks, thin client/VDI systems (Windows, Mac, Chrome), and tablets (iPad and Windows). These devices will be compatible provided they meet the established hardware, operating system, and networking specifications – and are able to address the security requirements described below.

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| --- |
| **Desktop, Laptop, Netbook, and Thin Client1/VDI Computers** |
| **Operating System** | **Supported for****PARCC****Field Test** | **Supported for 2014-2015 Operational Assessment** | **Minimum Specifications2** | **Recommended Specifications** |
| Windows | Yes | Yes | 3,4Windows XP– Service Pack 3 | Windows 7 or newer |
| Mac OS | Yes | Yes | Mac OS 10.5 | Mac OS 10.7 or newer |
| Linux | -- No -- | Yes | *Linux operating systems will not be supported for the Field Test. Please see the full PARCC Technology Guidelines for Linux specifications for the 2014-2015 operational assessments.* |
| Chrome OS | Yes\* **\*** For the Field Test, not all accessibility features for students with disabilities will be supported for Chrome OS. | YesAll accessibility features will be supported on Chrome OS for the 2014-2015 Operational Year. | Chrome OS 19 | Chrome OS 19 or newer |

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| **Tablets** |
| **Operating System** | **Supported for****PARCC****Field Test** | **Supported for 2014-2015 Operational Assessment** | **Minimum Specifications2** | **Recommended Specifications** |
| Android | -- No -- | Yes | *Android operating systems will not be supported for the Field Test. Please see the full PARCC Technology Guidelines for Android specifications for the 2014-2015 operational assessments.* |
| Apple iOS | Yes | Yes | iPad 2 running iOS 6(with 512 MB RAM or greater) | iPad 2 or newer running iOS6 or newer(with 512 MB RAM or greater) |
| Windows  | Yes\*\*Windows RT will not be supported for Field Test. | YesIt is unknown if Windows RT will be supported for 2014-2015. | 6Windows 8(with 512 MB RAM or greater) | 6Windows 8 or newer(with 1GB RAM or greater) |

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| **Additional Specifications for Desktop, Laptop, Netbook, and Thin Client1/VDI Computers** |
|  | **Minimum Specifications2** | **Recommended Specifications** |
| **Memory** | 512 MB of RAM | 1 GB RAM or greater |
| **Connectivity** | Computers must be able to connect to the Internet via wired or wireless networks. | Computers must be able to connect to the Internet via wired or wireless networks. |
| **Screen Size** | 9.5 inch screen size or larger  | 9.5 inch screen size or larger |
| **Screen Resolution** | 1024 x 768 resolution5 or better | 1024 x 768 resolution5 or better |
| **Input Device Requirements** | Keyboard – wired or wireless/BluetoothMouse or Touchpad or Touchscreen | Keyboard– wired or wireless/BluetoothMouse or Touchpad or Touchscreen |
| The input device must allow students to select/deselect, drag, and highlight text, objects, and areas. The input device must allow students to enter letters, numbers, and symbols and to shift, tab, return, delete, and backspace. To meet security guidelines, each Bluetooth/wireless keyboard must be configured to pair with only a single computer during assessment administration.Other assistive technologies may be needed for students requiring accommodations. PARCC will publish a list of Assistive Technology Devices that have no known compatibility conflicts with the TestNav 8 test delivery system for Field Test and 1st year operational administration at the end of December 2013. The list will be continually updated as ongoing assistive technology usability research is conducted.  |
| **Headphone/Earphone and Microphone Requirements** | Headphones/Earphones | Headphones/Earphones |
| Headphones/earphones are required for all students for all PARCC assessments. Some student accommodations may also require headphones/ earphones (e.g., text to speech). |
| **Additional Guidance for Desktop, Laptop, Netbook, and Thin Client1/VDI Computers** | 1 Each computer operating in a thin client environment must meet or exceed minimum hardware specifications, as well as bandwidth and security requirements.2 Computers meeting only the minimum specifications for the 2014-2015 assessment are not likely to be compatible beyond the 2015-2016 assessment. 3 Windows XP will no longer be supported by Microsoft after April 8, 2014, presenting security and support risks for schools. (http://windows.microsoft.com/en-US/windows/end-support-help)4 Computers running Windows XP-Service Pack 3 may require a web browser other than Internet Explorer due to HTML5 compatibility limitations. Specific web browser guidance can be found below in the Web Browser Requirements Section. 5 Computers must accommodate the 1024 x 768 screen resolution minimum without panning. PARCC recognizes that some netbook computers may have screen resolutions slightly less than the 1024 x 768 minimum, yet may meet all other minimum requirements. Depending on netbook model specifics, school technology administrators may be able to reset screen resolution to meet PARCC guidelines. Schools can use the PARCC Samples Sets that will be re-released on the PARCC technology platform in December 2013 and January 2014 to evaluate if particular netbooks are able to display PARCC assessment items without requiring students to scroll or pan.  |

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| **Additional Specifications for Tablets** |
|  | **Minimum Specifications** | **Recommended Specifications** |
| **Memory** |  |  |
| Android | 512 MB RAM or greater | 1GB RAM or greater |
| Apple iOS | 512 MB RAM or greater | 512 MB RAM or greater |
| Windows | 512 MB RAM or greater | 1GB RAM or greater |
| **Connectivity** | Computers must be able to connect to the Internet via wired or wireless networks. | Computers must be able to connect to the Internet via wired or wireless networks. |
| **Screen Size** | 9.5 inch screen size or larger7/ “10-inch class” tablets or larger | 9.5 inch screen size or larger7 / “10-inch class” tablets or larger |
| **Screen Resolution** | 1024 x 768 resolution5 or better | 1024 x 768 resolution5 or better |
| **Input Device Requirements** | Keyboard– wired or wireless/BluetoothTouchscreen or Mouse | Keyboard– wired or wireless/BluetoothTouchscreen or Mouse |
| Due to the onscreen space occupied by a tablet’s virtual keyboard, PARCC assessments will require external keyboards for test takers using tablets so as not to limit or obscure the view of test item content and related functionalities when text input is required. External keyboards must allow students to enter letters, numbers, and symbols and to shift, tab, return, delete, and backspace. Tablet touchscreen interfaces can be used for student interactions with the assessments other than text input, including to select/deselect, drag, and highlight text, objects, and areas. Keyboards may be wired or wireless. To meet security guidelines, each Bluetooth/wireless keyboard must be configured to pair with only a single computer during assessment administration.Other assistive technologies may be needed for students requiring accommodations. PARCC will publish a list of Assistive Technology Devices that have no known compatibility conflicts with the TestNav 8 test delivery system for Field Test and 1st year operational administration at the end of December 2013. The list will be continually updated as ongoing assistive technology usability research is conducted.  |
| **Headphone/Earphone/Earbud Requirements** | Headphones/Earphones | Headphones/Earphones |
| Headphones/earphones/earbuds are only required for English Language Arts/Literacy testing sessions, not mathematics testing sessions (except for students who need them for accommodations purposes such as text to speech).  |

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| **Additional Guidance** | 6Android and Windows RT will not be supported for the PARCC Field Test. PARCC has not yet evaluated the compatibility of Windows RT for 2014-2015 operational assessments. Update: Further information will be issued by March 2014. 7Smaller tablets (screen size less than 9.5 in), e-readers, and smart phones will not be supported and will not be compatible with PARCC field test in spring 2014 or operational assessments in 2014-2015. |

**BANDWIDTH RECOMMENDATIONS**

Minimum bandwidth requirements are based on the needs for the PARCC operational assessment, which are the same for the PARCC Field Test, and account for the maximum level of connectivity needed to administer test content for any one portion of the assessments for Math and English language arts/literacy, recognizing that some sessions may require less than the published minimum bandwidth. Schools with low bandwidth and/or large numbers of simultaneous users, including instructional and other non-assessment uses taking place concurrent with testing, are **strongly encouraged** to utilize PARCC’s options for proctor caching, a strategy that will significantly reduce bandwidth demand for testing. Similarly, test forms including computer-delivered accommodations and accessibility features are anticipated to require more bandwidth and therefore caching for accommodated forms is **very strongly encouraged**. Pearson has created the document *Proctor Caching: Using Caching Strategies to Better Manage Network Traffic Demand During Online High-stakes Assessments (*<http://www.parcconline.org/field-test-technology>) as a guide to assist schools in whether to implement caching for PARCC assessments.

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| **External** **Connection to the Internet** |
| **Minimum With Caching** | **Minimum Without Caching** | **Recommended for Assessment + Instruction** |
| 5 kilobits per second (kbps)/student | 50 kilobits per second (kbps)/student | 100 kilobits per second (kbps)/student or faster |

**Minimum Bandwidth - With Caching**

Schools that wish to implement **Proctor Caching as a low-bandwidth solution for assessment administration should plan to have 5 kilobits per second (kbps) of available bandwidth in their external connection to the Internet for each simultaneous test-taker.** With proctor caching, a school or district’s internal wired or wireless networks will distribute test content to student computers, but local internal network connection speeds may vary based on wireless network configurations or other factors. The Proctor Caching guide, available at <http://www.parcconline.org/field-test-technology> will help schools or districts configure caching to minimize local network variations.

**Minimum Bandwidth - Without Caching**

Schools that will have students connecting directly to the Internet during test administration should plan to have **50 kilobits per second (kbps) of available bandwidth for each simultaneous test-taker.** Thefewer students that are testing at the same time, the lower the bandwidth demand will be. Schools participating in the field test can take advantage of the relatively small numbers of students that need to participate during the testing window to schedule fewer simultaneous test-takers and, therefore, lower their bandwidth need for the PARCC Field Test.

**Recommended Bandwidth for Assessment + Instruction**

As schools plan for PARCC assessments concurrent with their efforts to enhance bandwidth capacity that can support technology-rich learning environments, PARCC recognizes that schools are evaluating simultaneous uses of their networks that include instruction, assessment, professional development, and administrative processes. In response, PARCC is modeling the higher recommended bandwidth level on the recommendations of the State Educational Technology Directors Association in its May 2012 publication *The Broadband Imperative: Recommendations to Address K-12 Education Infrastructure Needs* (http://www.setda.org).

**Proctor Caching as a Low Bandwidth Solution for the Field Test**

Caching is a secure option that will enable schools and districts to deliver interactive computer-based tests even in very limited Internet bandwidth conditions. Caching involves pre-downloading as much of the encrypted test content prior to testing as possible, staging it on a computer (or multiple computers) in a district network location(s), and distributing it to student test-taking computers from the caching server. These procedures will help to avoid potential bottlenecks from testing traffic due to slower network switches, a shared Internet connection, or any other constraint on large-scale assessment traffic.

PARCC’s test delivery platform provider for the Field Test, Pearson, is making available to schools and districts a caching option known as “Proctor Caching” as part of the Pearson TestNav 8 delivery platform that PARCC will use for the Field Test and the first PARCC operational administration in 2014-2015. With proctor caching, a test administrator downloads test content only once from the Pearson server to the district or school. Encrypted assessment content resides on a computer within the school network, and is delivered during testing to each student's computer, where TestNav 8 then decrypts and displays the test content for students. Only the local network is used for delivering test content while the student is testing to help protect from Internet delays or other networking bottlenecks.

For the PARCC Field Test, schools should plan on **bandwidth capacity equivalent to 5 kbps per simultaneous test-taker to implement proctor caching**.

**SECURITY REQUIREMENTS**

For the PARCC Field Test, eligible devices of any type (desktop, laptop, netbook, tablet, thin client) or operating systems (Windows, Mac, iOS, Chrome) must have the administrative tools and capabilities to “lock down” the device to temporarily disable features, functionalities, and applications that could present a security risk during test administration and should not prevent a PARCC secure browser or other test software from entering the computer into lock down mode. Features that will need to be controlled during test administration include, but are not limited to, unrestricted Internet access, cameras (still and video), screen capture (live and recorded), email, instant messaging, application switching, and printing.

The operating systems listed here as approved for PARCC assessments meet this security requirement, but provide different mechanisms for managing user security settings at the individual device and/or enterprise levels. School technology administrators should be familiar with the particular requirements of the systems they will be using for PARCC assessments to ensure test security is maintained.

**WEB BROWSER REQUIREMENTS**

Web browser requirements for the PARCC Field Test and the 2014-2015 operational assessments are driven by browser compatibility with the Pearson TestNav 8 assessment delivery platform. Browsers that will be supported for the **PARCC Field Test** are detailed below based on operating system.

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| **Browser Specifications for Windows Operating Systems** |
| **Windows Operating Systems** | **IE 9.0** | **IE 10.0** | **Chrome \***\*Chrome requires version 20 or higher | **Firefox †****†**Firefox requires version 14 or higher. |
| XP (SP 3) | No | No | Yes | Yes |
| Vista | Yes | No | Yes | Yes |
| Windows 7 | Yes | Yes | Yes | Yes |
| Windows 8*This does not include Windows 8.1* | No | Yes | Yes | Yes  |

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| **Browser Specifications for Mac Operating Systems** |
| **Mac Operating Systems** | **Safari 5.1** | **Safari 6.0** | **Firefox †****†**Firefox requires version 14 or higher. |
| OS 10.5 | Yes | No | No |
| OS 10.61 | Yes | No | Yes |
| OS 10.7 | Yes | Yes | Yes |
| OS 10.8  | No | Yes |  Yes  |
| 1 In certain situations when the parental control is on and the user attempts to connect to SSL sites, the automatic Internet content filter on Mac 10.6 workstations may block the testnav.com domain. To resolve this, set the parental control to “Always Allow” the testnav.com domain. |

**Additional Browser Dependencies:**

For proper functioning of the system, the following must be enabled:

* Java runtime plugin version 1.5 and higher
* Windows firewall configured to allow javaw.exe to communicate
* Allow Pop-ups for Pearson sites
* Allow local File access to home directory

Firewalls, content, and spam filters must be set to allow access to Pearson domains. When using Proctor Caching, the following must be opened in any firewalls, proxy servers, or software that is used for internet content filtering:

|  |
| --- |
| **URL:Port** |
| \*testnav.com:80\*testnav.com:443 |
| \*.amazonaws.com |

**Additional Tablet Specifications:**

Tablets running iOS 6 and higher cannot run Java so TestNav can not lock down the device properly like “standard” computers via the browser. A TestNav app will be available from the iPad APP Store in early January 2014. Student Response Files (SRFs) will be saved locally through the application.

Districts must take steps to configure iPads to deliver tests securely

* Disable screen capture
* Disable Home button functionality
* Enable “single app” mode

**COMPUTER-BASED ACCESSIBILITY FEATURES AND EMBEDDED ACCOMMODATIONS AVAILABLE FOR FIELD TEST**

During the PARCC field test administration, some accessibility features and accommodations will not be available due to ongoing development and research that is required to ensure that all accessibility features and accommodations provide a valid reflection of what students know and can do.  In addition, some specific accessibility features and accommodations may not be available on specific devices such as Chromebooks, and Android and Linux devices.

The chart on the following page summarizes which accessibility features and computer-based accommodations will be supported for the PARCC Field Test versus the 2014-2015 operational assessment. Please note, this document only addresses accessibility features and accommodations that will be built into the computer-based delivery platform.

More detailed information about PARCC accessibility including accommodations for paper pencil forms can be found in the PARCC Accessibility Features and Accommodations Guidelines (<http://www.parcconline.org/parcc-accessibility-features-and-accommodations-manual>).

|  | **Windows** | **Mac** | **iOS** | **Chromebook** | **Android** | **Linux** | **PARCC Manual Reference** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Spring '14** | **Fall '14** | **Spring '14** | **Fall '14** | **Spring '14** | **Fall '14** | **Spring '14** | **Fall '14** | **Spring '14** | **Fall '14** | **Spring '14** | **Fall** **'14** |
| **Tools - Available for all users** |
| **Available to all; Always available** |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | Flag Items for Review | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Notepad | No | Yes | No | Yes | No | Yes | No | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Zoom/Magnify | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
| **Available to all; Turned on/off at form/section level by Test Define**   |
|   | Calculator - Scientific | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 3, Page 30 |
|   | Calculator - Five Function w/sq root | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 3, Page 30 |
|   | Compass | No | TBD | No | TBD  | No | TBD  | No | TBD  | NA | TBD  | NA | TBD  | None |
|   | Eliminate Answer Choice | Yes | Yes | Yes | Yes | Yes | Yes | No\*\* | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Text Highlighter tool | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Pencil tool | No | TBD | No | TBD  | No | TBD  | No | TBD  | NA | TBD  | NA | TBD  | None |
|   | Protractor | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 3, Page 30 |
|   | Ruler (Inches/Centimeters) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 3, Page 30 |
|   | TI Graphing Calc | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 3, Page 30 |
|   | TI Scientific Calc (working with TI)1 | TBD  | TBD | TBD  | TBD  | TBD  | TBD  | TBD  | TBD  | NA | TBD  | NA | TBD  | Table 3, Page 30 |
| **Available to all; Item/Passage-level feature** |   |   |   |   |   |   |   |   |   |   |   |   |   |
|   | Audio with Volume Control | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Cut/Copy/Paste (Writing Tools)2 | Yes | Yes | Yes | Yes | Yes | Yes | TBD  | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Exhibits | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | None |
|   | Passage Paging | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | None |
|   | Pop-up Glossary (above grade-level vocab) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Spell Check3 | No | Yes | Yes | Yes | Yes | Yes | TBD  | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Video Playback | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | NA | Yes | NA | Yes | None |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Accommodated Forms features (can be turned on/off by proctor for FT; Operational = PNP-invoked)** |
|   | Answer Masking | Yes\* | Yes | Yes\* | Yes | Yes\* | Yes | No\*\* | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Assistive Technology (Devices vs. Software)5 | No | TBD | No | TBD  | No | TBD  | No | TBD  | NA | TBD  | NA | TBD  | Table 2, Page 27 |
|   | External Devices (No-software component)5 | Yes | Yes | Yes | TBD  | Yes | TBD  | No | TBD  | NA | TBD  | NA | TBD  |   |
|   | Devices/Software5 | No | Yes | No | TBD  | No | TBD  | No | TBD  | NA | TBD  | NA | TBD  |   |
|   | Closed Captioning | No | Yes | No | Yes | No | Yes | No | Yes | NA | Yes | NA | Yes | Table 2, Page 27 |
|   | Background/Font Color (Color Contrast ) Settings | Yes\* | Yes | Yes\* | Yes | Yes\* | Yes | No\*\* | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Descriptive Video | No | Yes | No | Yes | No | Yes | No | Yes | NA | Yes | NA | Yes | Table 2, Page 27 |
|   | General Masking | No | Yes | No | Yes | No | Yes | No | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Line Reader  | Yes | Yes | Yes | Yes | Yes | Yes | No\*\* | Yes | NA | Yes | NA | Yes | Table 1, Page 22 |
|   | Draggable Magnifier | Yes | Yes | Yes | Yes | Yes | Yes | No\*\* | Yes | NA | Yes | NA | Yes |   |
|   | Refreshable Braille displays (ELA only) | No | TBD | No | TBD  | No | TBD  | No | TBD  | NA | TBD  | NA | TBD  | Table 2, Page 27 |
|   | Spanish supported. Add'l languages TBD | No | No | No | No | No | No | No | No | No | No | No | No | None |
|   | Text-to-Speech (for math)Text-to-Speech (for ELA) | Yes\* | Yes | Yes\* | Yes | Yes\* | Yes | No\*\* | Yes | NA | Yes | NA | Yes | Table 1, Page 22Table 2, Page 27 |
|   | Unrestricted/Accommodated Calculator Use | No | Yes | No | Yes | No | Yes | No | Yes | NA | Yes | NA | Yes | None |
|   | Video of Human Interpreter (math+directions) | No | Yes | No | Yes | No | Yes | No | Yes | NA | Yes | NA | Yes | Table 2, Page 27 |
|  |  |   |   |   |   |   |   |   |   |   |   |   |   |  |
| \*Accessibility Features/Accommodations will be available on limited grade/subject forms, per the research plan. |
| \*\*As Chrome is a relatively new OS, the range of Tools/Accommodations is being evaluated and will be updated no later than 10/1/13. |
|  |  |
| 1Pearson - Working with TI. Issues: calculator screen size & increased bandwidth demands. (Will not have final specs from TI until Oct '13.) |
| 2Pearson - discovered inconsistency with non-IE browsers. Functionality still works; address through training. |
| 3Pearson - discovered security issue with browser-based dictionary. Server side dictionary could lead to performance issues or inconsistent user experiences. |
| 4Pearson - discovered inconsistency among browsers (Safari = 200%, Firefox = 300%, Chrome = 500%, IE = 1000%). |
| 5PARCC will publish a list of Assistive Technology Devices that have no known compatibility conflicts with the TestNav 8 test delivery system for Field Test and 1st year operational administration at the end of December 2013. The list will be continually updated as ongoing assistive technology usability research is conducted.  |